



Dual Streaming
H.264 Multiplex 4CH/8CH Network DVR
Support 3G/3.5G mobile phone/PDA
(Symbian/Windows Mobile/iPhone/iPad/Blackberry/Android)
Support 2xSATA

User Manual

V1.2



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CAUTION

**TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.
NO USER SERVICEABLE PARTS INSIDE.
PLEASE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

WARNING

**TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS
APPLIANCE TO RAIN OR MOISTURE.**

NOTE: This equipment has been tested and found to comply with the limits for a Class “A” digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the users will be required to correct the interference at their own expense.

FCC Caution: To assure continued compliance, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment.

This Class A digital apparatus meets all the requirements of the Canadian Interference Causing Equipment Regulations.

LIMITATION OF LIABILITY

- This users' manual is supplied 'as is', with no warranties, be it expressed or implied, including, but not limited to, the implied warranties of merchantability, suitability for any exact purpose, or non-infringement of any third party's rights.
- This publication may include technical inaccuracies or typos. The manufacturer holds the right to introduce any changes to the information contained herein, for any purpose, including but not limited to, improvements of the publications and/or related to the product, at any time, without prior notice.

DISCLAIMER OF WARRANTY

The supplier shall not be liable to any party or any person, except for replacement or reasonable maintenance of this product, for the cases, included but not limited to the following:

- Any damage or loss, including but not limited to: direct/indirect, consequential, special, exemplary use arising out of or related to the product;
- Inappropriate use or negligence of the user in operation of the product, resulting in personal injury or any damage;
- Unauthorized disassembly, repair or modification of the product by the user;
- Any problems or consequential inconvenience, loss or damage, caused by connecting this product to devices of the third parties;
- Any claim or action for damages, brought by any photogenic subject, be it a person or organization, due to violation of privacy whereby the surveillance picture and/or saved data becomes public or is used for the purpose other than surveillance.

SAFETY INSTRUCTIONS

- Read these instructions and keep them in a safe place for future reference.
- Please refer all work related to the installation of this product to qualified service personnel or system installers.
- Do not operate the appliance beyond its specified temperature, humidity or power source ratings.
- Place the unit on a flat surface not prone to vibration or impact.
- Use the appliance at temperatures between 0°C ~ +45°C (32°F ~ 113°F) and humidity below 85%.
- The input power source for this appliance is between 90 ~ 264 VAC, 47 ~ 63 Hz.
- Install the unit away from heat sources such as radiators, heat registers and stoves. Installation of the unit near consumer electronics devices, such as stereo receiver/amplifiers and televisions, is permitted as long as the air surrounding the terminal does not exceed the above mentioned temperature range.
- **Handle hard disk drives with care.**
It is possible to damage hard drives if they are moved while their motors are still running. To allow the hard drive to spin down and park its heads, wait at least 10 seconds after disconnecting power before moving the unit.
To avoid shock and vibration damage to the internal hard drive, do not move the unit while it is plugged in.

Protect hard disk drives from static electricity.

Do not stack hard disk drives or keep them upright.

Do not use an electric or magnetic screwdriver to fix hard disk drives.

- Do not place the unit in an enclosed area where the cooling vents are blocked or impede the flow of air through the ventilation openings.
- Protect the power cord from being stepped on or pinched particularly at plugs and the points where they exit from the apparatus.
- Do not drop metallic parts through slots. This could permanently damage the appliance. Turn the power off immediately and contact qualified service personnel for service.
- Handle the appliance with care. Do not drop or shake, as this may damage the device.
- Do not expose the appliance to water or moisture, nor try to operate it in wet areas. Do not install the unit in an area where condensation occurs. Do not operate with wet hands. Take immediate action if the appliance becomes wet. Turn the power off and refer servicing to qualified service personnel. Moisture may damage the appliance and also cause electric shock.
- Do not use strong or abrasive detergents when cleaning the appliance body. When the dirt is hard to remove, use a mild detergent and wipe gently.
- Do not overload outlets and extension cords as this may result in a risk of fire or electric shock.
- Please make a note of your settings and save them. This will help when you are required to change the system configuration, or when an unexpected failure or trouble occurs.
- Distributing, copying, disassembling, reverse compiling, reverse engineering, and also exporting in violation of export laws of the software provided with this product, is expressly prohibited.



CARING FOR THE ENVIRONMENT BY RECYCLING

When you see this symbol on a product, do not dispose of the product with residential or commercial waste.

Recycling your Electrical Equipment

Please do not dispose of this product with your residential or commercial waste. Some countries or regions, such as the European Union, have set up systems to collect and recycle electrical and electronic waste items. Contact your local authorities for information about practices established for your region

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1. Starting

1.1 Product Specification

Model	4CH DVR	8CH DVR
Video Format	NTSC/PAL	
Video Compression	H.264	
Video Input	4 Channel	8 Channel
Video Main Output	BNC x 1 and VGA maximum 1920 x 1080 resolution	
Audio Compression	ADPCM	
Record Resolution & Frame rate	PAL : CIF @ 100FPS/352×288 Half D1 @50FPS/704x288 D1 @25FPS/704x576 NTSC :CIF@ 120FPS/352×240 Half D1 @60FPS/704x240 D1@ 30FPS/704x480	PAL : CIF@ 200FPS/352×288 Half D1@100FPS/704x288 D1 @50FPS/704x576 NTSC : CIF@240FPS/352×240 Half D1@120FPS/704x240 D1 @60FPS/704x480
Playback resolution & Frame Rate	1CH/4CH PAL : CIF 100FPS/352×288 Half D1 50FPS/704x288 D1 25FPS/704x576 NTSC: CIF 120FPS/352×240 Half D1 60FPS/704x240 D1 30FPS/704x480	
Audio IN/ Out	RCA 4 Input / 1 Output	RCA 8 Input / 1 Output
Record Mode	Continuous / Schedule/Alarm / Motion Detect, Individual channel schedule recording setup	
Storage Capacity	1 or 2 SATA Interface (2TB/4TB)	
Alarm	4 Inputs, 1 Output (NC, NO relay)	
Network	RJ-45 10/ 100 Base T Ethernet connector (PPPoE, DHCP, DDNS, Static IP), UPnP and FTP	
Network Function	IE Browser Live Monitor, Configuration, Download Video, Playback, and Mobile Phone Surveillance	
USB 2.0 Interface	Mouse/Potable Mobile HDD/Flash Drive/DVD Burner/Firmware	
Playback method	Normal Play, Fast Forward, Backward, Single Step	
RS485/PTZ	1 x RS485	
PTZ Protocol	PELCO-P , PELCO-D, Samsung, Panasonic, Philips etc.	
Video Backup	AVI, MPEG4 or H.264 Raw for USB Flash Disk	
Power	DC12V/3.3A or 5A(optional for 2 SATA)	
Operating Temperature	0°C ~ +40°C	
Dimension	315(W) x 224(D)x 52(H) mm	315(W) x 224 (D) x 52 (H) mm or 436(W) x 339(D) x 55(H)

1.2 What are inside this DVR package?

When unpack the DVR retail box, you may find the following:

- This DVR device
- This hard copy user manual(for reference only, please refer to soft copy inside the CD for more details)
- Change Notice inserts or file inside the CD root if any change on the DVR operations or spec.; **you may refer to [Appendix D Change Notice](#) inside this manual**
- CD(Manuals, mobile software), please refer to Appendix D for details
- Remote control with battery(option)
- Audio cables for 8CH DVR(8 x RCA in + 1 x RCA out, only A-IN1 ~ A-IN4/A-OUT work)
- Power adaptor with power cord
- Installation precautions, grounding wire and 4 screws for HDD
- USB Mouse (**optional, depends on the model**)
- Hard disk drive (optional, the installer may have set up for you), if you would like to install Hard disk drive, please see [Appendix B](#) for the list of compatible HDDs)

1.3 Starting this DVR

1.3.1 Before Turning On The DVR

- Please install **SATA HDD or DVDRW** in the Hard Disk Tray. ([Chapter 3.2](#) and [Appendix B](#))
- Please refer to Chapter 3 for all connections.
- To use the remote controller ([Chapter 2.3](#))
- **If want to use web browser or 3G/3.5G mobile phones from internet, you have to apply the Internet connection service, please contact your mobile service provider for details.**

1.3.2 DVR local Setup

- Please wait for about 40 seconds for the system to start up.
- This DVR has dual display(TV/VGA monitor), but OSD control is only side, default is VGA, you may press **“ESC” + “1” +”ESC” continuously from faceplate or remote control to switch to TV mode, please refer to [Chapter 4.2 Main Menu](#)**
- **Please login the system ([Chapter 4](#)), and then physically format the HDDs ([Chapter 4.3](#)). (Please note that the HDDs cannot be used for recording if they are not formatted yet.)**
- Please refer to [Chapter 4](#) for all basic operations.
- Please refer to [Chapter 5.2](#) to setup the system correctly, esp. for NTSC/PAL, Record Resolution, Time & Language.
- Please refer to [Chapter 4.4](#) and [Chapter 5.3](#) for recording setting.
- Please refer to [Chapter 4.5](#), [Chapter 4.6](#), [Chapter 4.7](#) to search, playback, and archive the recorded video/audio.
- Please refer to [Chapter 5.4.6/5.4.8](#) for motion Detection, [Chapter 5.4.7](#) for Privacy Mask(Mosaic), and [Chapter 5.6](#) for Alarm setting
- Please refer to [Chapter 3.3](#) for PTZ camera connection, [Chapter 4.8](#) and [Chapter 5.4](#) to set up and control the PTZ cameras correctly.
- Please refer to [Chapter 5.5](#) for Network Setting including DHCP/Static IP/PPPoE, ports no., DDNS and E-mail Server
- Please refer to [Chapter 6](#) for remote access via internet or intranet from PC/Laptop

- Please refer to [Chapter 7](#) for remote access via internet or intranet from mobile phone
- Please refer to [Appendix A](#) for the estimated recording time.
- Please refer to [Appendix B](#) and [Appendix C](#) for the compatible HDD/USB portable DVD Burner List

1.3.3 DVR Network Setup and Web Browser

- Please note that the user must have system administrator authority for the client PC, please refer to [Chapter 6](#) for details
- If upgraded this DVR for new version software, it is better to delete some components from the PC by the batch command file “WebOcxClean.dat” inside the CD root, **please close IE before run this batch command file.**
- These DVRs have mobile player software for 3G/3.5G mobile phone/PDA(Windows Mobile/iPhone/Nokia/Blackberry), please refer to [Chapter 7. 3G/3.5G Mobile Phone/PDA Support](#) for more details.

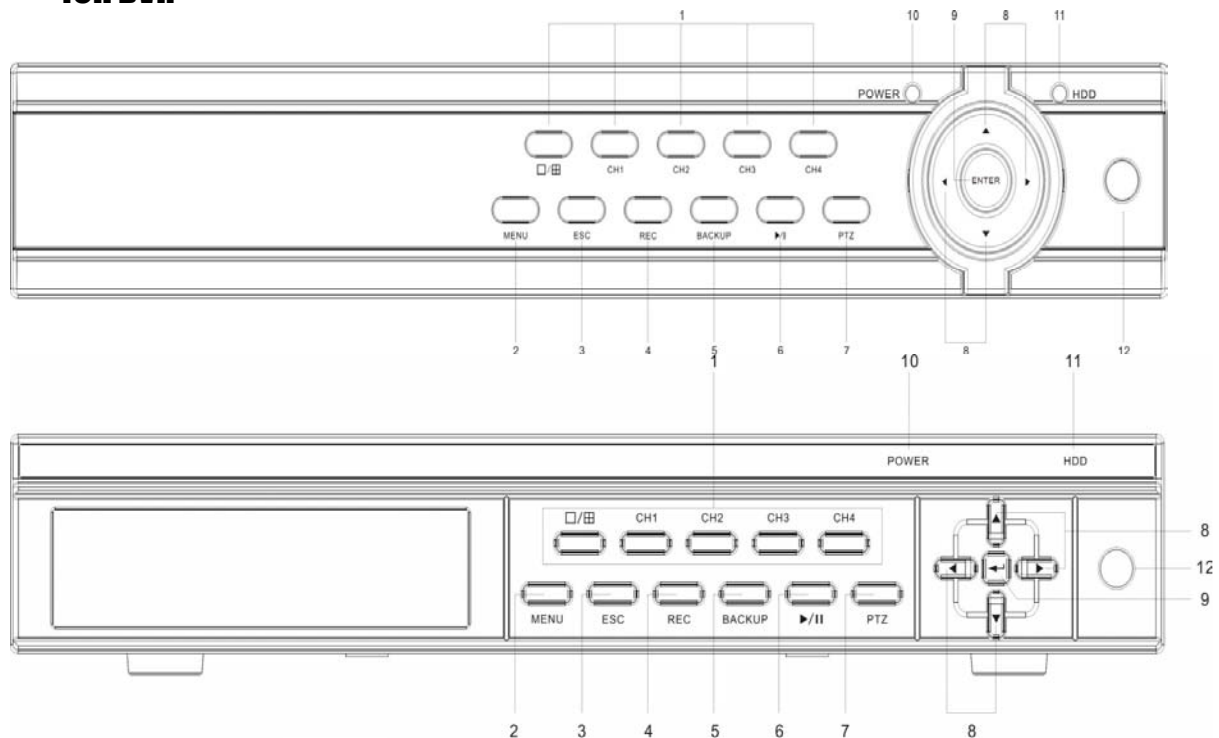
1.3.4 CD content inside the package

- * DVR User Manual in the root
- * Multiplex H264 DVR Utility V1.6
- 1. MP4Player – for back up MPEG4 files(USB, DVDRW, Internet) playback in PC
- 2. WebOcxClean.dat - to delete the old Active X components from the PC used to remote access this DVR which upgraded by new software, please close IE before run it
- 3. Windows mobile software for 5.0/6.0/6.1 Windows PDA: **KWeyesetup.CAB**” in the /Mobile Phone software/Windows Mobile
- 4. Symbian S60 3rd mobile software: **“KWeye_JH_3rd_1222.sisx”** in the /Mobile Phone software/Symbian S60 3rd
- 5. Symbian S60 5th mobile software: **“KWeye_JH_5th1222.sisx”** in the /Mobile Phone software/Symbian S60 5th
- 6. BlackBerry software **“KWeye.cod”** and **“KWeye.alx”** in the /Mobile Phone software/BlackBerry
- 7. Android software **“KWeye.apk”** in the /Mobile Phone software/Android
- * CMS software version 4.5.3, CMS User manual V1.3.doc and DDNS setup and applying manual in the CD:/CMS 4.5.3/

2. Panels and Remote Controller

2.1 Front Panel

Please take actual front panel as quasi-4CH DVR



1. **CH1 ~ Ch4 /  / **
Direct switch to single camera window or 4 camera windows
 /  Start and Stop time setting of playback or back up in schedule record([Chapter 4.5 Video Playback](#)), or [5.4.6 Motion/5.4.7 Privacy Mask setting\(Mosaic\)](#) setting, or [5.3.2 Record Schedule/5.6.4 Alarm Schedule setting](#)
2. **MENU**
Press this button to display the main menu.
3. **ESC**
Exit window or switch the tool bar(main menu) and status bar
4. **REC**
Start or Stop manual record function.
5. **Backup**
Open video search and backup menu
6. **Play/Pause ()**
Open video search and playback menu. press to pause playback.
7. **PTZ**

Open camera selected with PTZ operation menu.

8. ◀, ▶, ▲, ▼

Arrow Buttons. Press ◀, ▶ to move to selection box, press ▲, ▼ to select submenu parameters.

9. **Enter**

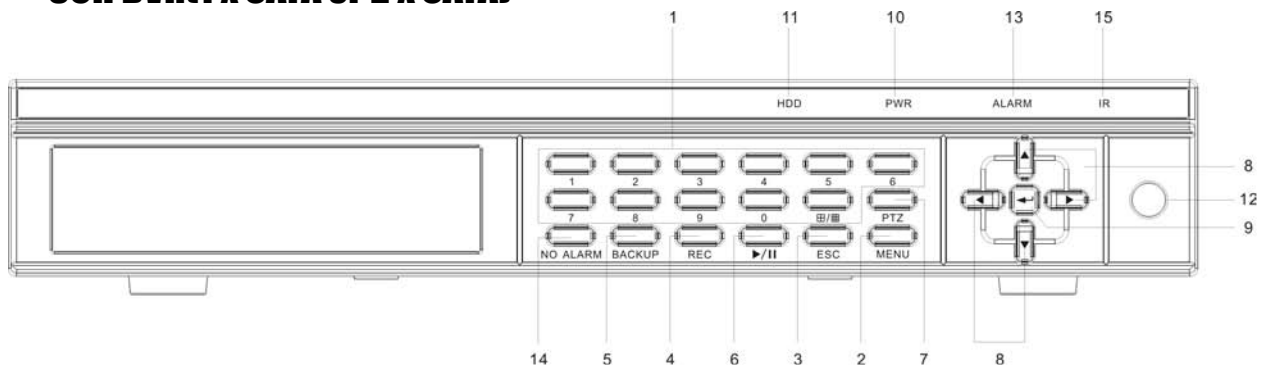
Confirm operation.

10. **Power LED**

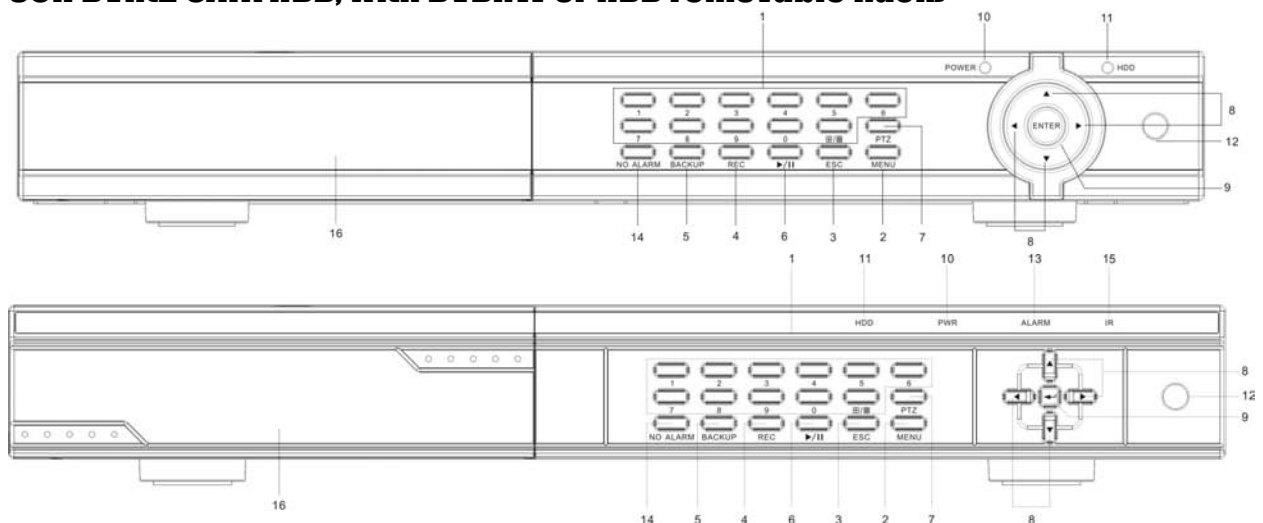
11. **HDD LED**

12. **IR Window**

8CH DVR(1 x SATA or 2 x SATA)



8CH DVR(2 SATA HDD, with DVDRW or HDD removable Rack)



Key buttons 2 ~ 12 are same as 4CH DVR, except:

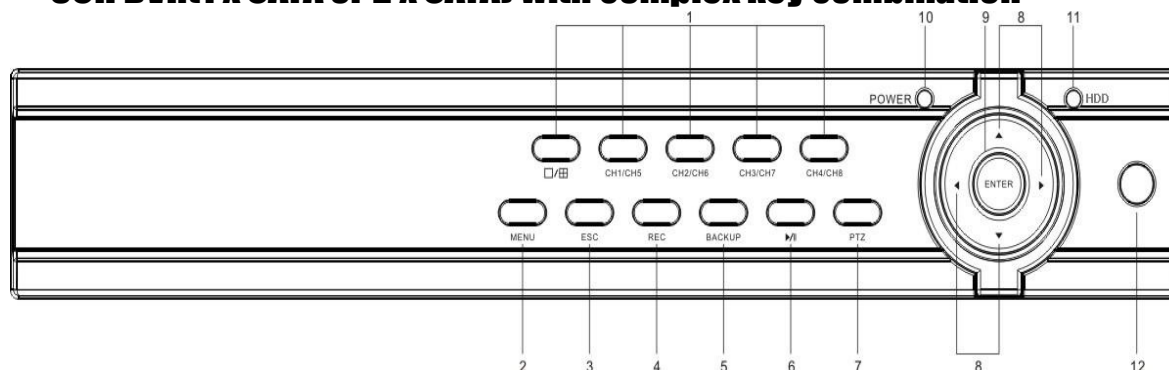
1. 1~8 / /

Direct switch to single channel window , or 9 camera windows.

/ Start and Stop time setting of playback or back up in schedule record([Chapter 4.5 Video Playback](#)), or [5.4.6 Motion](#)/[5.4.7 Privacy Mask setting\(Mosaic\)](#) setting, or [5.3.2 Record Schedule](#)/[5.6.4 Alarm Schedule setting](#)

13. **ALARM LED:** indicate alarm happened
14. **NO ALARM:** Cancel Alarm and Buzzer
15. **IR LED**
16. **DVD Burner or Removable HDD Cover**

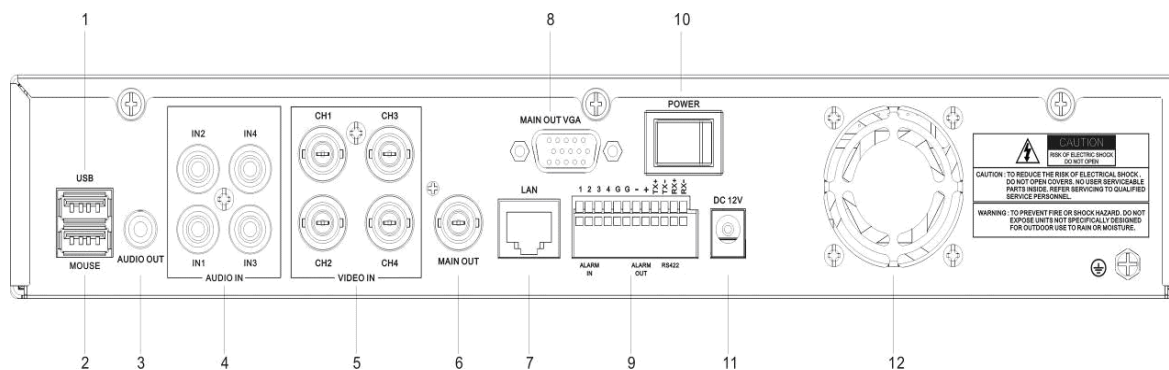
8CH DVR(1 x SATA or 2 x SATA) with complex key combination



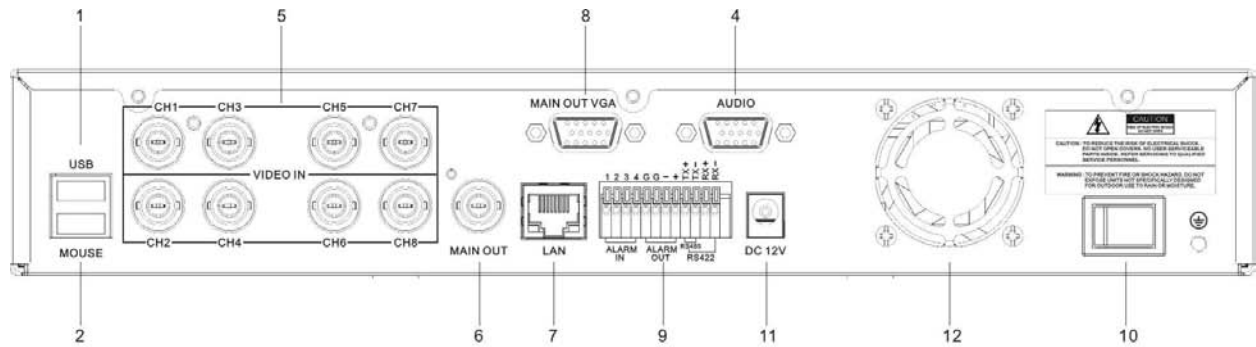
Key buttons 2 ~ 12 are same as 4CH DVR, except:

1. **Complex keys - CH1/CH5, CH2/CH6, CH3/CH7, CH4/CH8,**  
Channel 1/Channel 5, Channel 2/Channel 6, Channel 3/Channel 7, Channel 4/Channel 8 toggle switch button, and also button switch between 1/9 camera windows
 Start and Stop time setting of playback or back up in schedule record([Chapter 4.5 Video Playback](#)), or [5.4.6 Motion](#)/[5.4.7 Privacy Mask setting\(Mosaic\)](#) setting, or [5.3.2 Record Schedule](#)/[5.6.4 Alarm Schedule setting](#)

2.2 Back Panel



Back Panel diagram for 4CH H264 DVR(1x fixed HDD)



Back Panel Diagram for 8CH H264 DVR(1/2 fixed HDD)

1. USB connector

Connect backup devices like flash drive, portable HDD or DVD burner

2. Mouse Connector

Connect USB mouse.

3. Audio Output Connectors

1 channel audio output, RCA (2Vp-p,600Ω) for 4CH DVR

4. Audio Input Connectors (AUDIO IN 1-4/1-8, only A-IN1 ~ A-IN4/A-OUT work)

4 channel audio input, RCA (2Vp-p,600Ω) for 4CH H264 DVR; or connector for 8CH H264 DVR to connect Audio cable(4CH Audio Input+ 1CH Audio Output)

5. Video Input Connectors (1-4/1-8)

4 or 8 channel video input, BNC (1Vp-p,75Ω)

6. Video Main Output Connector

DVR system screen output, BNC (1Vp-p,75Ω)

7. Ethernet Connector

RJ-45 10/100 Base-T Ethernet network.

8. VGA Connector (optional for 4CH)

Connect VGA/LCD monitor

9. Alarm Input Connectors (ALARM IN 1-4, 5-6 Ground)

Connect to external sensor device

Alarm Output Connectors (ALARM OUT 7-8)

Connect to external sensor device

RS-422 Connector (9-12)

RS-485 Connector (9-10, TX+, TX-)

Support PTZ camera control

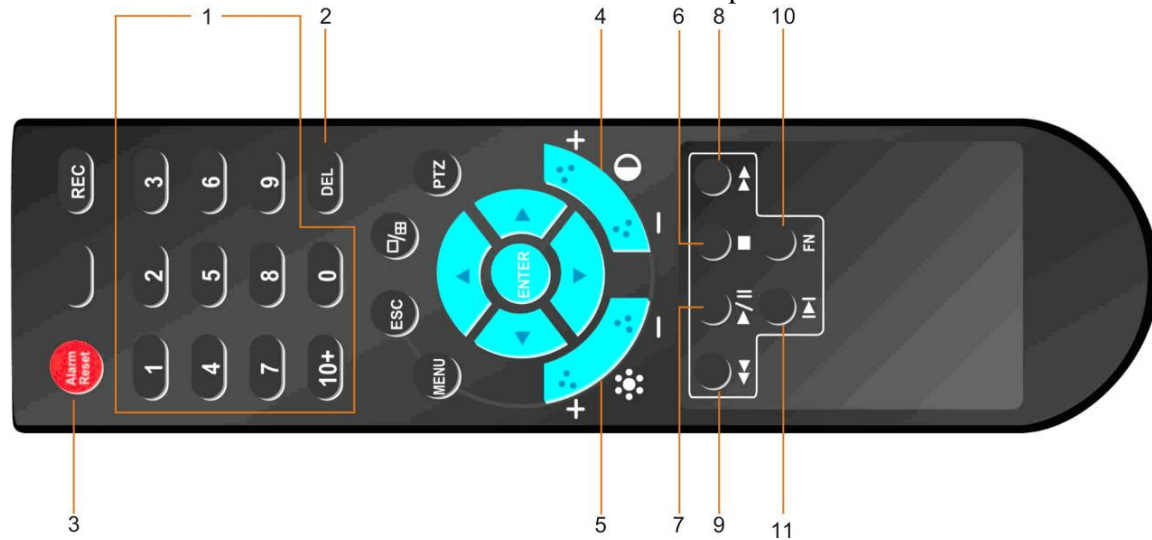
10. Power Switch

11. Power Input Socket (12V DC)

12. Fan

2.3 Remote Controller

The remote controller is an accessory to ease the user's operations. You can do all the operations by the remote controller instead of the buttons on the front panel.



1. **Alpha-numeric Buttons (1-9, 0, 10+)**
Press these buttons for camera selection in most circumstances. These buttons can also be used to enter text and number
2. **DEL Button (DEL)**
In text editing mode, this button is used as “del” key.
3. **Alarm Reset Button**
Press this button to cancel alarm activation; click this button will pop a message to show the present alarm information.
4.  **Contrast Button**
Adjust image contrast up(+)/down(-).
5.  **Brightness Button**
Adjust image brightness up(+)/down(-).
6. **Stop Button (■)**
Press this button to stop the playback.
7. **Play/Pause Button (▶/||)**
Press this button to search and play the recorded images, or pause the playback.
8. **Fast Forward Button (▶▶)**
Press this button for fast forward playback.
9. **Fast Backward Button (◀◀)**
Press this button for fast backward playback.
10. **Function Key(FN)**
Start time and Stop time setting of playback or back up in schedule record([Chapter 4.5 Video Playback](#)), or [5.4.6 Motion/5.4.7 Privacy Mask setting\(Mosaic\)](#) setting, or [5.3.2 Record Schedule/5.6.4 Alarm Schedule setting](#)
11. **Single Step Button (▶|)**
Press this button to play the recorded images frame by frame.

The Other Buttons

Each of the other buttons corresponds to one of those buttons on the front panel. Please refer to the descriptions in [Section 2.1. Front Panel](#)

3. Hardware Installation

3.1 Basic Connections

■ Cameras

Connect the camera output to video input connector in rear panel of the DVR.
The video input interface is standard BNC connector, 1V_{p-p}, 75 Ω.

■ Audio Connector

The audio input interface is standard RCA socket, 2V_{p-p}, 600 Ω.

The **audio input resistance is a little bit high; please use active sound collection device or active microphone**. And the audio signal cable should keep away from the interference of strong electromagnetism and electric field.

■ Monitor

Connect the main output connector to a monitor. Use BNC-to-RCA connector to work with Audio/Video RCA cable.

■ Power

Use adapter come along with DVR, plug 12V_{DC} output connector into the power socket.

■ Alarm Input/output

Please refer to [Chapter 5.6.2](#).

■ Ethernet

Connect the Ethernet connector to a standard twisted-pair Ethernet cable for remote access via LAN or internet

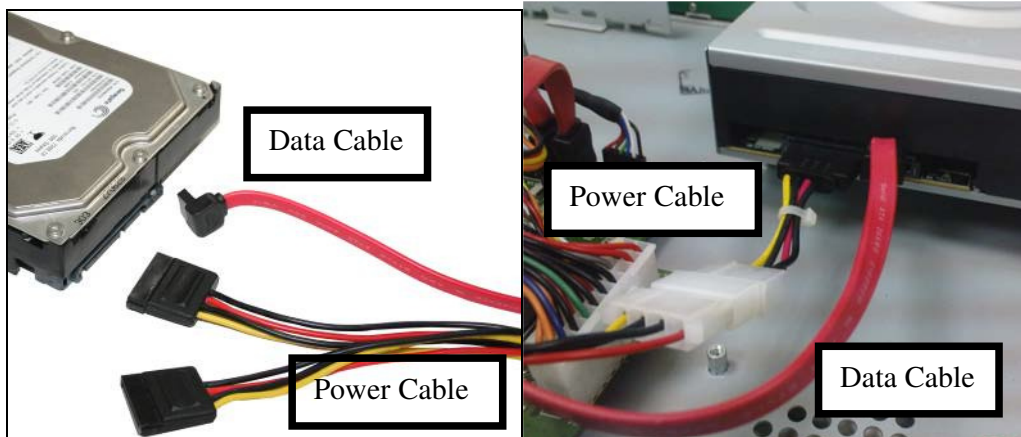
■ USB 2.0

Support Mouse, USB Flash Drive, USB portable HDD, USB portable DVD Burner.
Only support FAT32 file system.

3.2 Hard Disk and internal DVD Burner Install

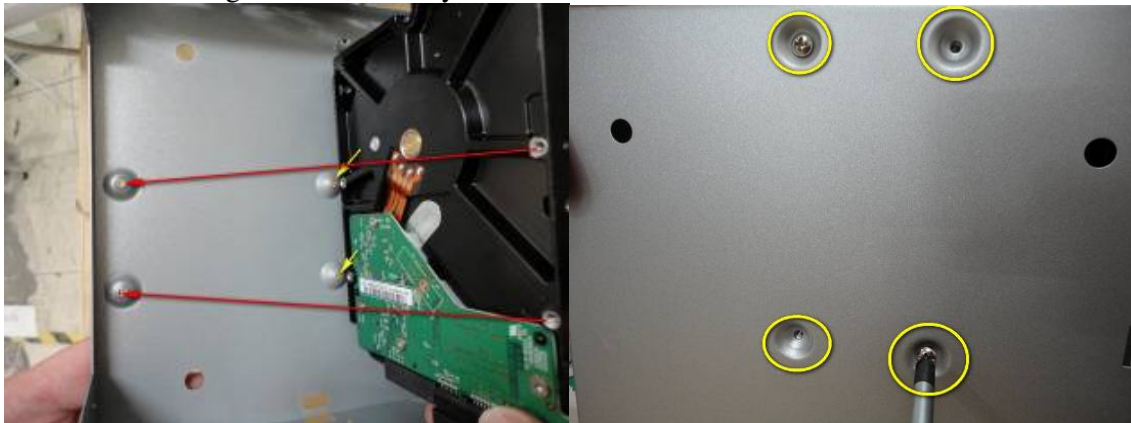
**HDD must be formatted by DVR system before it can be used to record.
PS. Do not format HDD by PC, it will cause incompatibility.
Please refer to [Section 4.3 Format HDD](#) to format the HDD.**

There are usually power cable  and data cable  with the DVD Burner you buy, connect to our DVR as follows(right):



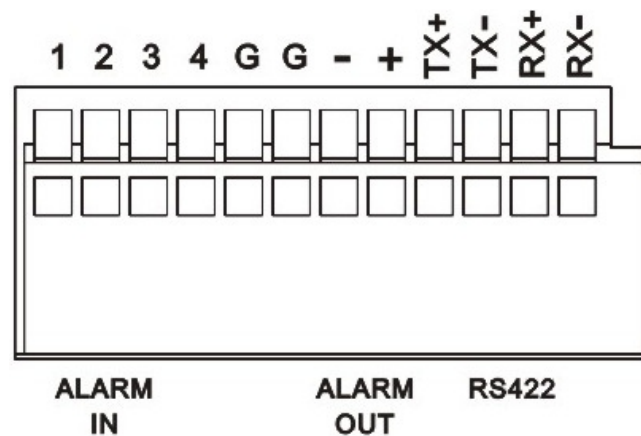
Internal DVD Burner message appears only in Video Backup with MPEG4 format, please refer to [Chapter 4.6 Video Backup](#)

For the internal fixed HDD installation, there is no HDD bay for it, there are 4 screw holes underneath housing bottoms, where you can secure them as below:



3.3 PTZ Control Connections

Connect the PTZ control interface to RS485 T_X⁺ and T_X⁻ interfaces of rear panel.



Please refer to PTZ setting section for [5.4.2 ~5.4.4 PTZ protocols, baud rates and IDs](#)

4. Power-on DVR and Quick Start

Power-on the DVR and wait for system program loading. The DVR will buzz and “NO Hard Disk” appears when no hard disk installed in DVR. This DVR has dual display(TV/VGA monitor), but OSD control is only side, default is VGA, you may press **“ESC” + “1” + “ESC”** continuously from faceplate or remote control to switch to TV mode

First window will request to select user account and password to operate DVR system.

Default password of Admin is [888888] User is [666666]



DVR system status bar at the bottom of the screen. Right-click mouse key or press **【Enter】** at front panel will open **【Tools Bar】** for system setting and operating.

4.1 Live View Screen(Status Bar)

◆ Single Channel display

When in 4/9 split view modes, the window with highlight **green border** is the current selected one. User can use mouse or press **【Direction】** buttons to switch to another channel. If the audio output device is connected, the audio can also be monitor together with video. User can select to display a single particular channel by pressing the corresponding **【Numbers】** buttons 1~8.

When in single split view mode, user can enter into 4/9 splits view mode by pressing / or / button directly, or reverse.

◆ Channel Status Display

Indication of “motion detection” / “common recording” / “alarm recording” and etc. will be displayed on the right upper corner of each split screen. The details are as follows:

-  Indicates “ motion detection” .
-  Blue indicates “ common recording”
-  Green indicates “ motion detection triggered recording”
-  Red indicates “ alarm triggered recording”
-  Grey indicates “ manual recording”

◆ Peripheral alarm input / alarm output/HDD/Network display

Indication will be displayed on system status bar:

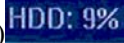
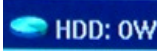


The four icons indicate the alarm input status. When alarming, it changes into **red** color



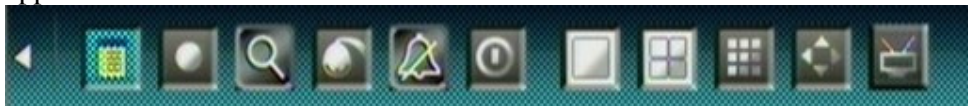
The last icon indicates alarm output. When alarming outputs, it changes into **red** color.



 HDD normal(blue)  HDD Failure(red)  Network connected(blue)  Network disconnected(gray)  HDD: 9% HDD percentage recorded  NET: 4 No. of cameras network connected  HDD: 0W Hard Disk Overwrite

4.2 Main Menu(Tools Bar)

Right click mouse or press **【Enter】** button in preview mode, the Tool Bar shown as below will appear:





: Hide the tool bar.



: System configuration



: Manual record



: Search, playback and backup record files



: PTZ operation



: Cancel alarm notification. Click this button will pop a message to show the present alarm information.



: Shut down the system before power off, good for HDD protection



: To switch screen display mode “Single camera” → “Quad 4 camera” → “9 camera”



To switch the OSD control between TV and VGA monitor, **also can be done by pressing “ESC” + “1” + “ESC” continuously from faceplate or remote control**



: To adjust the screen, 8 pixels per unit can be adjusted as follows:



: To reduce or increase screen in vertical direction.



: To reduce or increase screen in horizontal direction.



: To move the screen up, down, left, right



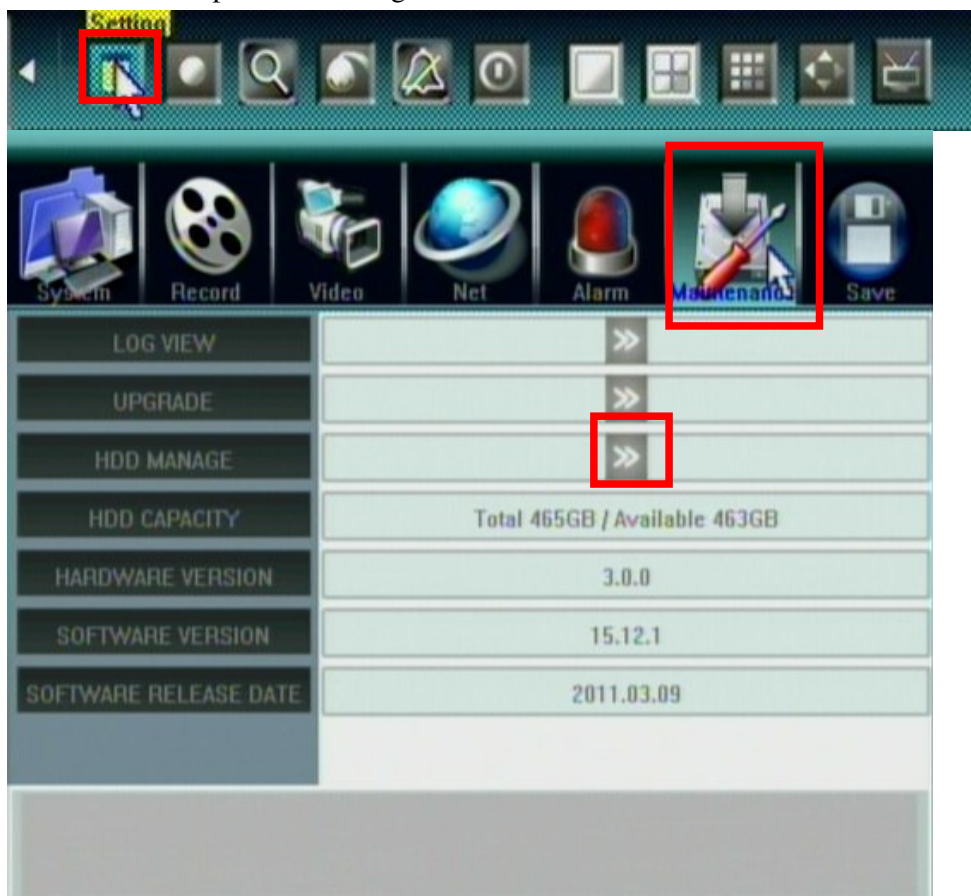
: To zoom out the screen to largest and show in central.

4.3 Format HDD

Login DVR system as **【Admin】** account.

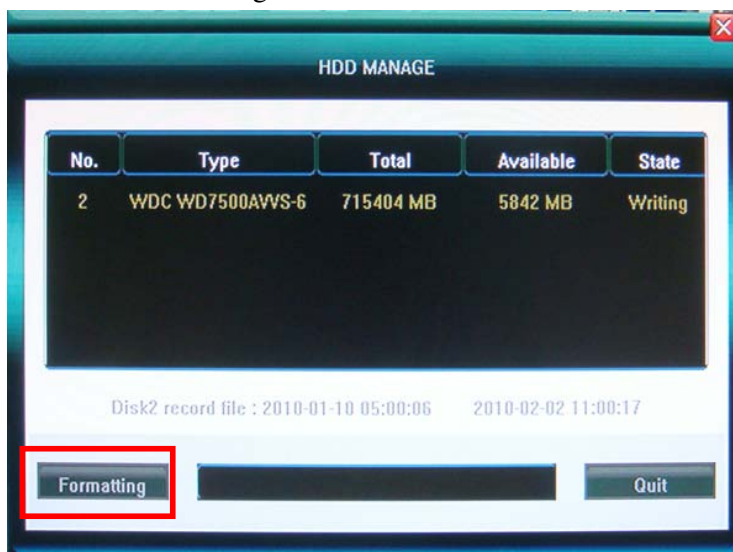
Select <Tool Bar> → <Setting> → <Maintenance> → <HDD Manage> item.

Click 『>>』 to open HDD Mange window.



HDD information will display on the windows if DVR detection HDD correctly.

Click 【Formatting】 to start HDD format.



4.4 Video Record

There are two methods to precede record in DVR, manual record and schedule record.

The priority of manual record is higher than schedule. If the record schedule is conflict with manual record, the manual record will be processed firstly until the manual record being canceled. Record types include “common recording” / “alarm triggered recording” / “motion detection

triggered recording” / “alarm & motion detection triggered recording”, the following indications will be displayed on the right upper corner of each split screen:

- Blue indicates “ common recording”
- Green indicates “ motion detection triggered recording”
- Red indicates “ alarm triggered recording”
- Grey indicates “ manual recording”

◆ **Manual Record**

Please select <Tool Bar>→<Manual Record> to let the specific channel record or not. Press

【●】 button to start/stop recording manually.



The video recorded manually is named “common recording”

◆ **Schedule Record**

Please select <Tool Bar> → <Setting > → <Record> → < Record Schedule> to set.
The setting screen is shown as the figure below:



- ① . The current recording channel number
- ② . The record schedule
- ③ . Description of record type

System provides a recording option for 24 hours every day and Sunday through Saturday every week. Unit is hour. One grid indicates one hour.

Move highlight icon to a time grid using **【Direction】** buttons.

Specify the recording type by repeat pressing **【Enter】** button or double left clicking mouse,(the color of the grid will change relevantly).

Select OK to confirm settings. **The settings will take effect after being saved.**

For the detailed operations, please refer to [5.3.2 Record Schedule](#)

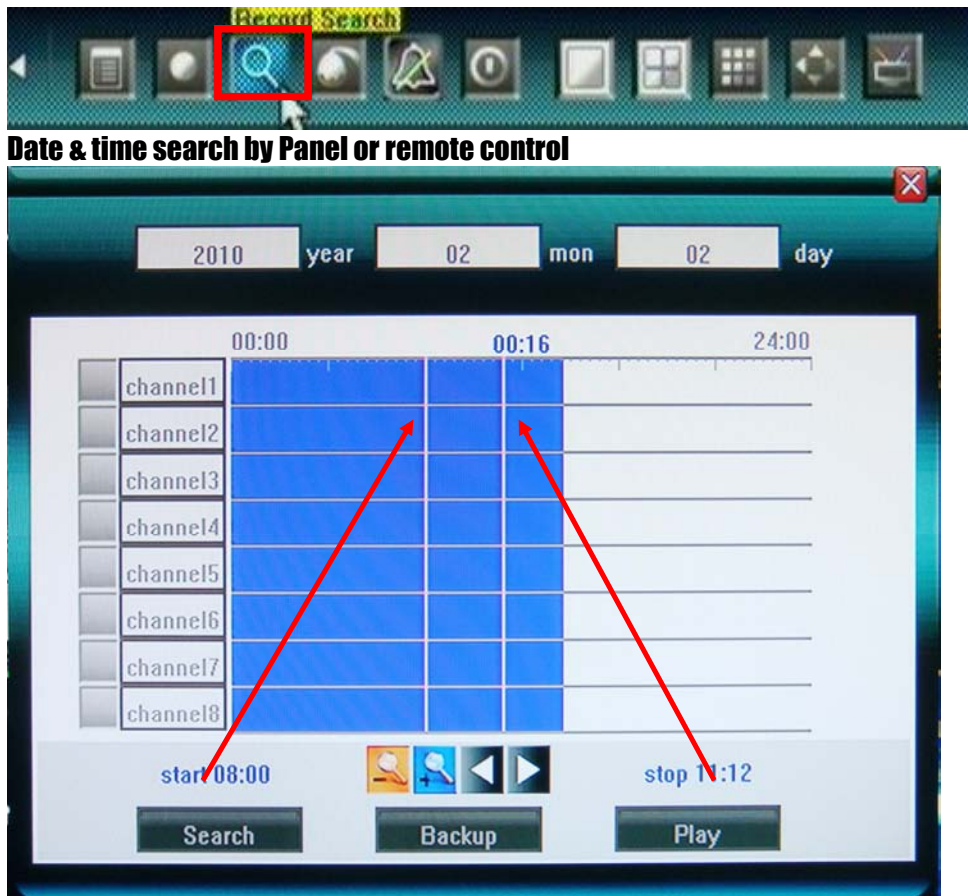
When motion detection & alarm recording is selected, the motion detection sensitivity and area should be set ahead. Please refer to [5.4.6 Motion Detection Settings](#) for details.

When alarm recording is selected, the alarm triggering settings should be set ahead. Please refer to [5.6.3 Event Handling](#) for details.

4.5 Video Playback

Specify the date/time and channel number by selecting <Tool Bar>→<Record Search>.

The searching results will be list on the screen in responding different colors so as to distinguish different record types.



In order to playback a certain video feed from a particular camera, you first need to indicate what time and which camera you wish to receive this information from.

Move highlight icon to relevant selection box using **【◀】** , **【▶】** buttons.

Move highlight icon to date/time selection box, modify time using **【▲】** , **【▼】** buttons. Move highlight icon to channel selection box, press **【Enter】** button to select it or cancel selection.

After setting time, channel number , move highlight icon to Search using **【◀】**, **【▶】** buttons, and press **【Enter】** button to start searching recorded video.

Move highlight icon to , press **【Enter】** button to zoom in/zoom out timeline.

If the timeline is out of screen, please move highlight icon to  and press **【Enter】** button to display the part out of screen.

After searching over, by remote control, press **【FN】** button will move to timeline to select start time, then press **【FN】** button again to select stop time, after that, press **【FN】** button to finish the setup; by  /  or  /  button of faceplate to select start/stop time as **【FN】** above..

The available recordings will be represented by differently colored bars on the time line depending on the type of the recording (Blue: common recording, Green: motion detection triggered recording, Red: alarm triggered recording, Grey: manually made recording).

After all settings, move highlight icon to Play using 【◀】 , 【▶】 buttons, and press 【Enter】 button to start playing.

◆ Date & time search by Mouse

User can mouse click to specify time. First left-click on timeline will mark 【start time】 and there will have a vertical line show up , second left-click will mark 【stop time】 . Mouse right-click will clear all marked time.

◆ Playback Control



◀ : Back backwards, the available speeds are 8X, 16X

▶ : Fast forward, the available speeds are 2X, 4X, 8X, 16X, 1/8X, 1/4X and 1/2X.

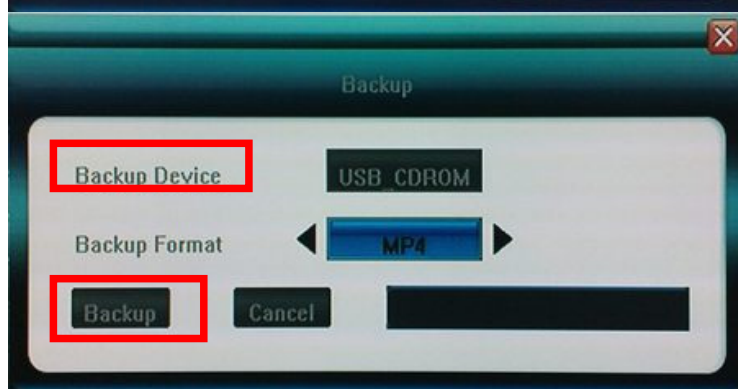
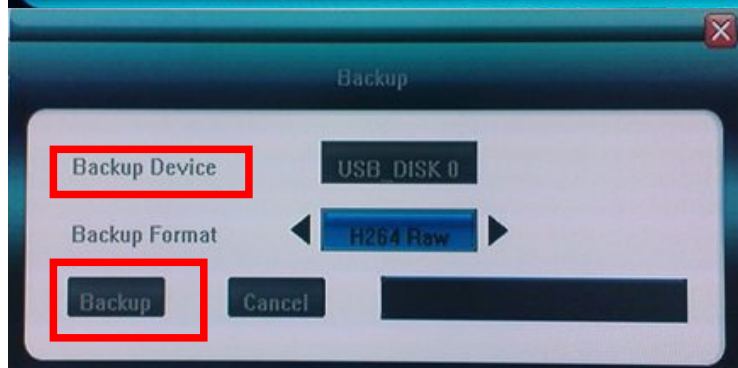
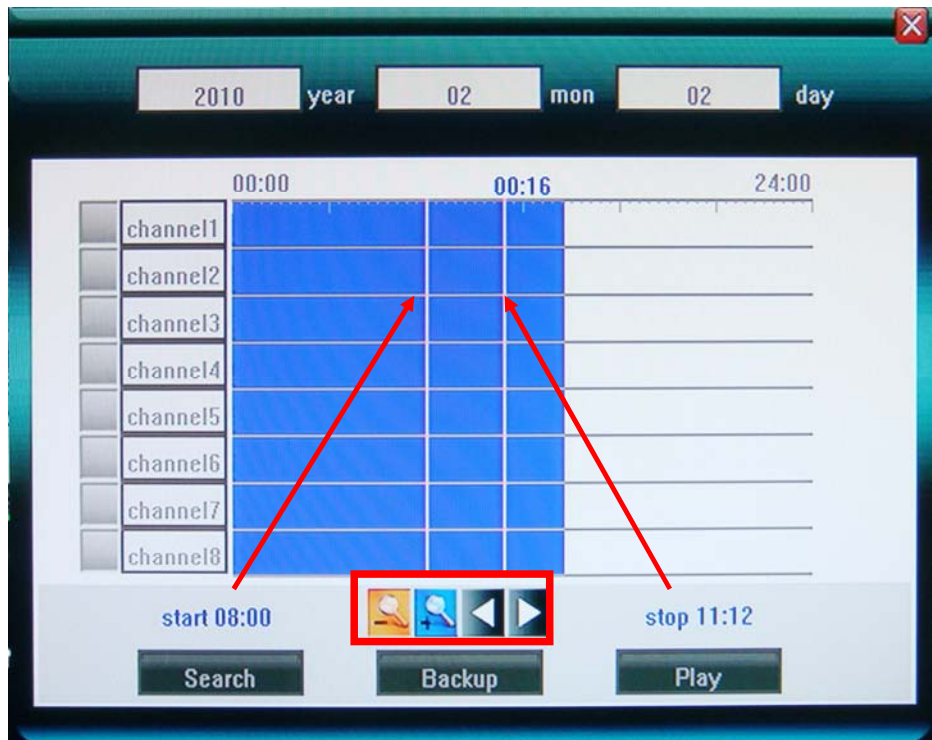
⏸ : Pause ⏹ : Stop playing.

⏭ : Go to next frame. ⏮ : Click to switch from single camera to 4/9 camera.

4.6 Video Backup

Select <Tool Bar>→<Record Search> to search, backup and playback the specific record files you needs. Set the start time and stop time as describe in [4.5 Video Playback](#)





Click [Backup] to enter into the backup screen. System will detect all the backup devices available and display them. **Backup device can use USB flash drive, USB portable HDD and USB DVD Burner.**

Only support FAT32 file system for USB flash and HDD

Please select the suitable device and record type according to requirement first, and click [Backup] to start save audio/video. If there is no backup device found, a prompt tip will appear to remind users of connecting USB device well.

The types of record video back up include **H.264 Raw**, **MPEG4** and **AVI** for **USB Flash Drive** and **portable HDD**(need external power supply), and only **MPEG4** can be backed up for **USB DVD Burner**; when backup in MPEG4 types, the special video decoder components WMP_MediaFilter.rar will also be backed up together automatically. After it is decompressed and installed, the stored MPEG4 video files can be playback only by **Windows Media Player**.

4.7 Play Backup Video on PC

For **MPEG4** video format playback, you must install decoder component for **Windows Media Player**. User can find the compressed files “**WMP_MediaFilter.rar**” inside the backup devices. Uncompressed the “**WMP_MediaFilter.rar**” and execute “**InstallFilter.bat**” to install the decoder component, you can playback MPEG4 file by Windows Media Player.

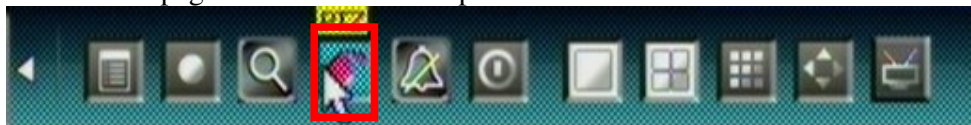
Please note you don't have to install this component for playback every time, it is one time installation; or you can use the “**MP4Player**” to play back MPEG4 format, please refer to **Utility** inside the CD of this package([Appendix D](#)).

For **H264 video format** playback, you may go to www.videolan.org/vlc to download vlc binaries player according to your operation system, but must rename the stored video file from *.264 to *.h264.

4.8 PTZ Control

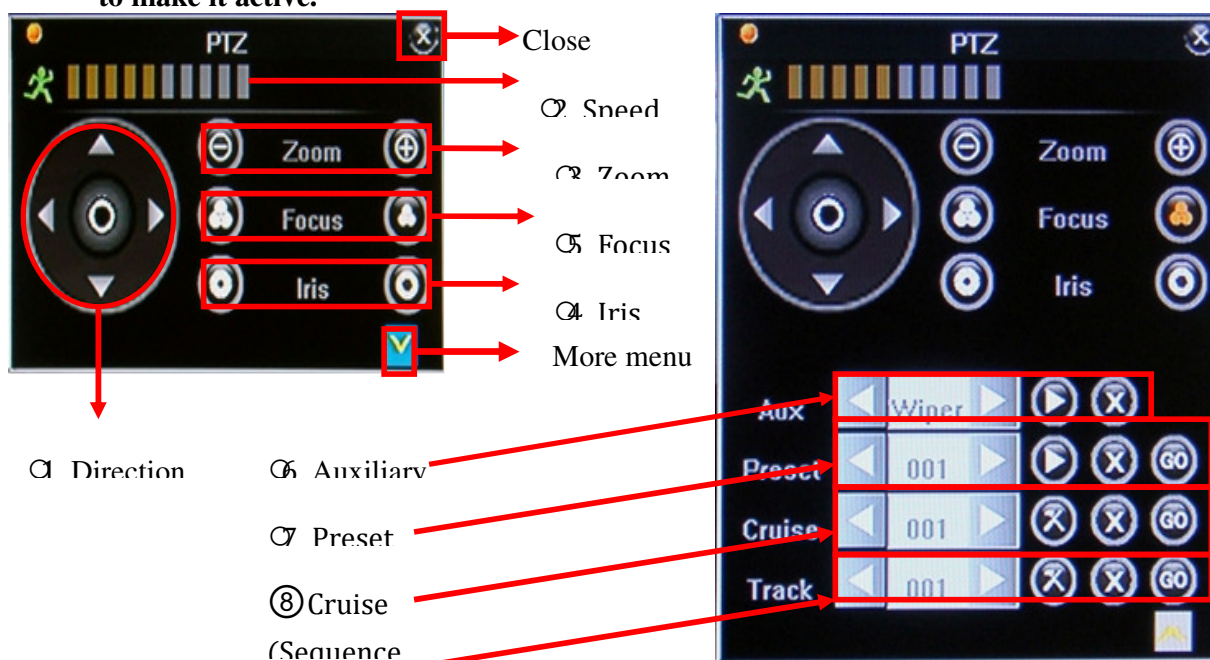
◆ Local Operate

Select single camera view and press <PTZ> button in front panel. Press direction key to move highlight and press <Enter> to set the action. Press  icon to open more menu, and please refer to next page for functions descriptions



Mouse operation is quite easy for PTZ control, just click and move, by remote control or

keypad, should press “Enter” key after any function keys such as ◀, ▶, ▲, ▼ pressed to make it active.



⑨Track

Internet explorer web browser Operate

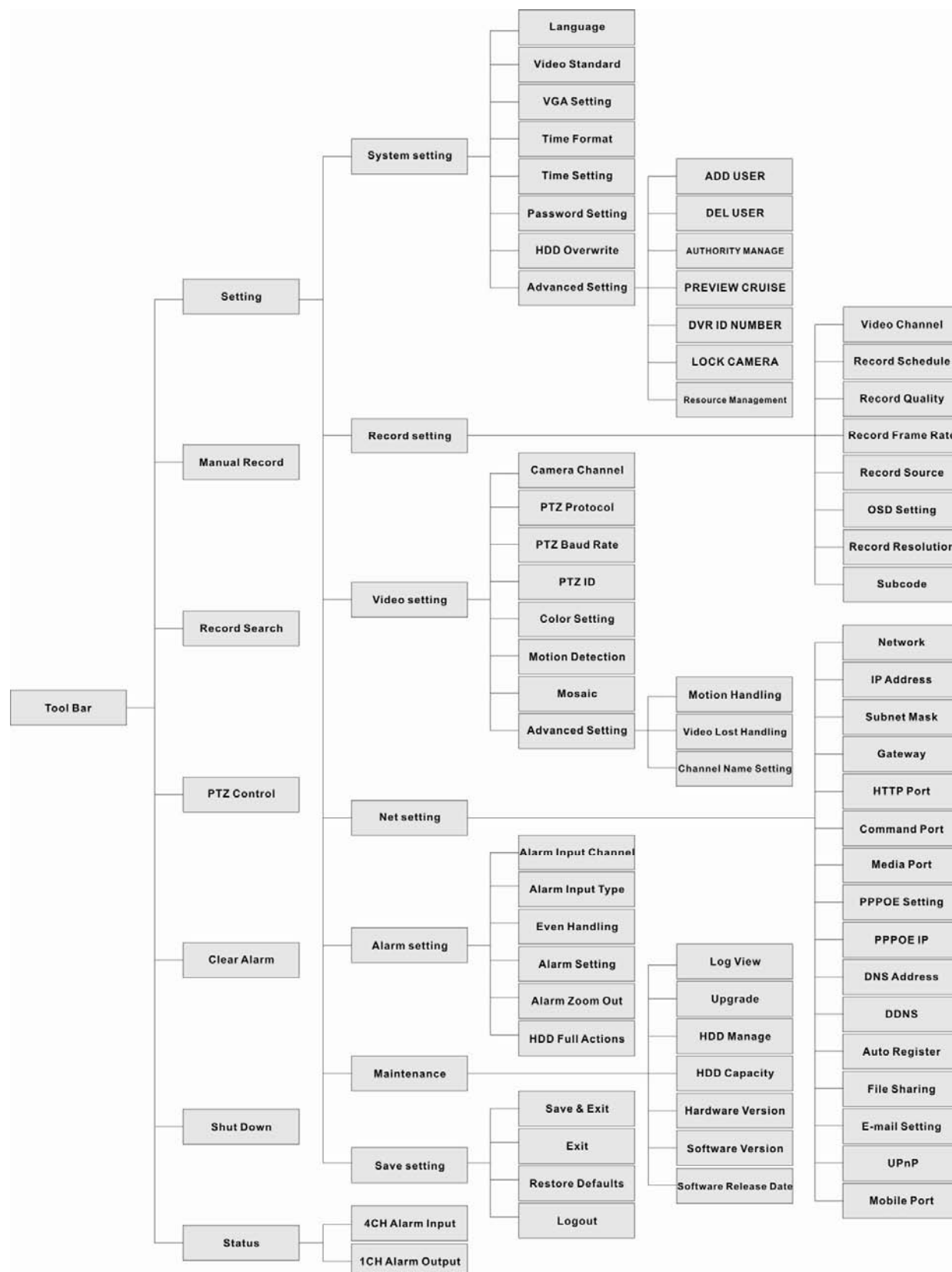


NO.	Name	Description
Q1	Direction	Click the arrow icons to control direction of PTZ. Click the center icon  to call sequence or run scanning. Please refer to the PTZ manual for details of PTZ scanning mode.
Q2	Speed	Set the turning speed of PTZ camera.
Q3	Zoom	Click to zoom in/zoom out (it is disabled for cameras with automatic focus).
Q4	Iris	Click to make the image brighter or darker (it is disabled for cameras with automatic iris adjustment).
Q5	Focus	Click to focus-in and focus-out (it is disabled for cameras with automatic focus).
Q6	Auxiliary	Open/close auxiliaries. Click  /  to open and click  /  to close, and use arrow keys to choose. Different functions respond to different protocols. The auxiliaries include light, rain brush, and power etc. please refer to PTZ manual for details.
Q7	Preset	Preset is to set camera position, focus, zooming, and iris position, and then mark them in numbers for later calling. 1. Select the preset number you want to name as. 2. Position the camera as desired position including direction, focus, iris and zoom value. 3. Click on the set button  /  . call preset: 1. Select the preset number you want to call. 2. Click on the go-to button  /  . Clear/reset preset: Select the preset number you want to clear/reset. Click on the clear button  /  .
⑧	Cruise (Sequence)	Cruise is a running route of camera that passes through multiple presets. Set sequence: 1. Select preset number you want to call. 2. Click on set button  /  .

		3. Repeat step 1 and 2 to add the other presets till finishing. 4. Click on run button  . Clear sequence: Click on /  button to clear sequence.
⑨	Track	Track is a continuous running route of camera. Set track: 1. Click on  /  to start setting. 2. Move camera as the track and start/stop time you want it to run. 3. Click on “  / ”OK” to finish setting. 4. Click on  /  to run track and click again or  to stop running. NOTE: Whether Track is supported or not is depending on the type of PTZ.

5. DVR Setting

5.1 Menu Tree & Operate



◆ General Operations

Press **【MENU】** button to enter into system setting screen.

Press **【●】** button to start/stop recording manually.

Press **【▶□】** button to play record file.

Press **【PTZ】** button to enter into PTZ control screen.

◆ Menu Selection

The highlight menu is the current active one. User can move highlight icon to the menu needed using **◀**, **▶** button, and press **【Enter】** button to confirm selection, or press **【ESC】** to return to upper menu.

◆ Menu Operation

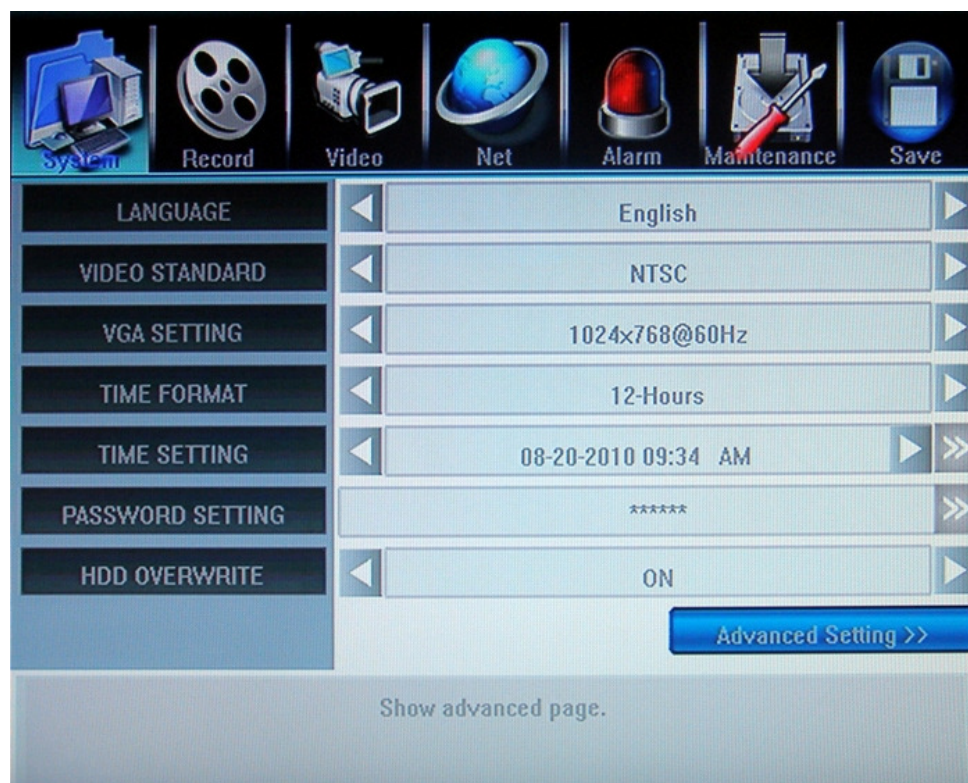
Use **▲**, **▼** to move highlight for configure items. Press **◀**, **▶** button to change parameter. Use mouse to input via on-screen keyboard or input value from remote controller.

Press **【>>】** open sub menu, and **【ESC】** return upper menu.

◆ Save/Exit

User can click **×** button on the right upper corner, or single right click mouse, or press **【ESC】** button to enter into the Save & Exit screen. You can select exit directly or exit after being saved.

5.2 System Setting



5.2.1 Language

Change DVR menu text and OSD language depend upon your requirement.

****Take effect immediately ****

5.2.2 Video Standard

Change DVR and camera video system, NTSC or PAL system.

****Take effect after being saved. ****

5.2.3 VGA Setting

Switch different VGA output resolution, there are 800x600@60Hz, 1024x768@60Hz, 1280x1024@60Hz, 1440x900@60Hz

if wrong VGA resolution to make the LCD display distorted, please press “ESC” -> “2” -> “ESC” continuously(not over 3 second) of front panel/remote control to restore the display resolution to be 800x 600

5.2.4 Time Fomat

Switch time format between 12-Hours or 24-Hours.

****Take effect immediately ****

5.2.5 Time Setting

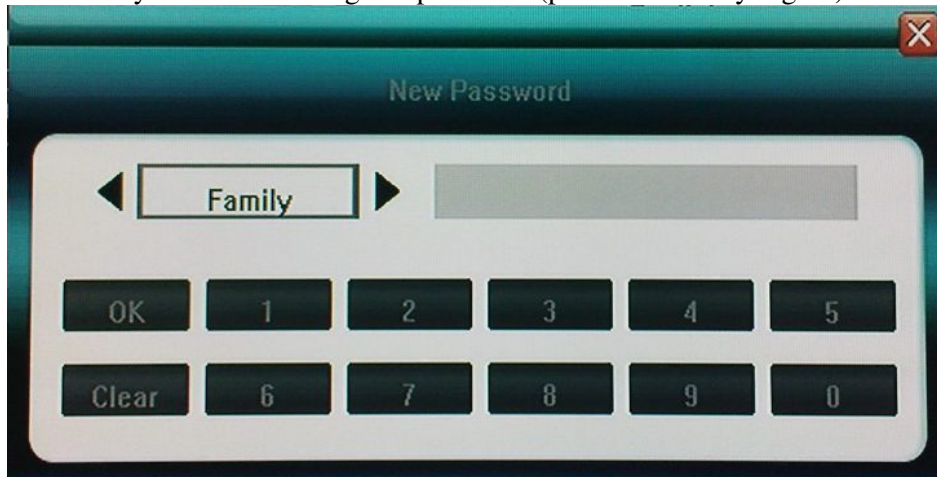
Select time display way and adjust date/time of DVR, you can choose “AM”/”PM” display if Time Format is “12-Hours”, which will change the [Chapter 5.7.1 Log View](#) time display format

****Take effect immediately ****

In order to avoid record files' time confusion, you'd better stop recording before modifying system time

5.2.6 Password Setting and what if forgotten

Choose any account to change its password (password is only digital)



Default password of Admin is [888888] User is [666666]

If password forgotten, turn off the machine, open this DVR case, find the JP17 jumper, it is near the SATA connector location, and find some jumper cap to make it closed(short) and hold it until “beep” sound heard, it will return back to default password of “Admin” and “User” account.



5.2.7 Hard Disk Overwrite

Set up hard disk full action – over write(ON) or stop recording(OFF)

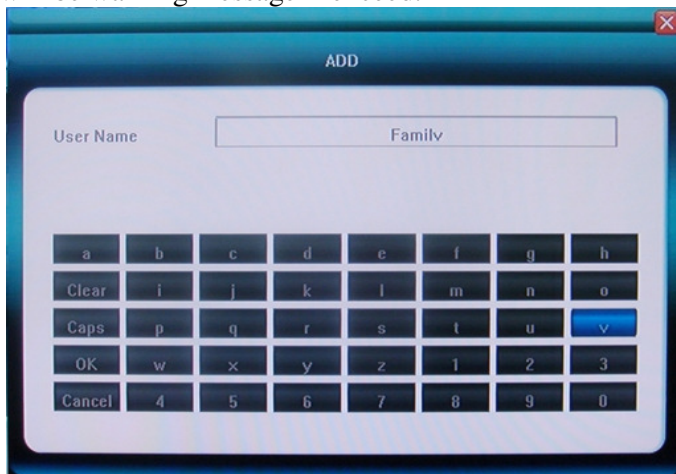
5.2.8 Create/Delete User Account, assign authorities, setup SEQ Display(Preview Cruise) and Lock Cameras:

Click “Advanced Setting” of “System”, enter the following setup:



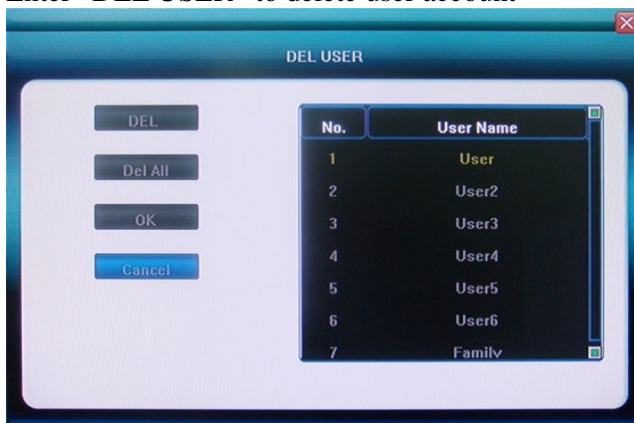
◆ **Add User Account**

Enter “ADD USER” to add user account, most 7 users accounts can be produced, and there will be warning message if exceed.



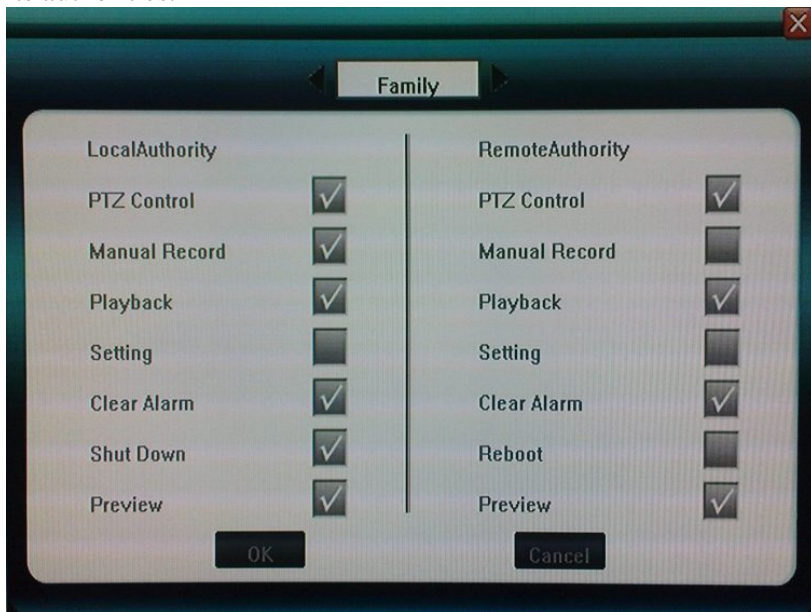
◆ **Delete User account**

Enter “DEL USER” to delete user account



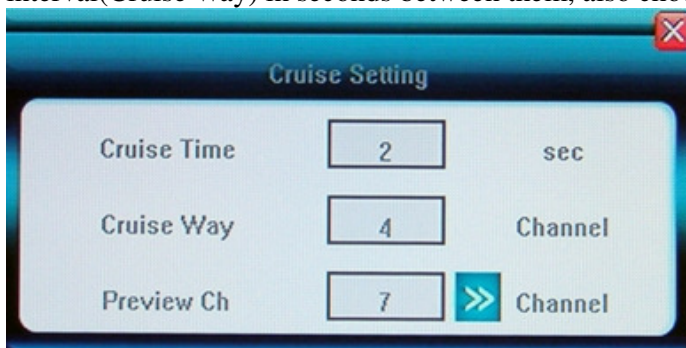
◆ **Authority Manage**

Operation authority of DVR for “User” account can be defined by system. There are two conditions to apply restriction, **Local operation** and **Remote access**. The user accounts are not allowed to operate DVR setting. Enter “Authority Manage”, choose User account, and assign its authorities.



◆ **SEQ Display(Preview Cruise)**

Set up the SEQ display (Cruise Way) for 4CH(1/4CH) and 8CH(1/4/9CH), and the time interval(Cruise Way) in seconds between them, also choose the channels for Preview Cruise

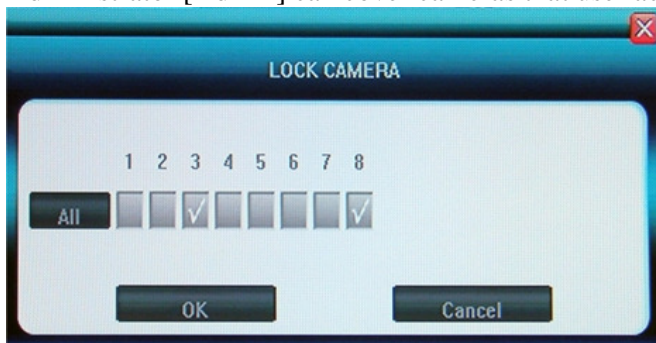


◆ **DVR ID NUMBER**

It is future growth, to set up the same ID number with RS422 Keyboard if you want to control DVR from keyboard.

◆ **Lock Cameras(Cover Cameras)**

Administrator [Admin] can cover cameras that user accounts can not see locally and remotely.



5.2.9 Resource Management

Before set up the [Chapter 5.3.4 Record Frame Rat](#) and Chapter [5.3.7 Record Resolution](#) for this DVR, you have to assign the resource managements first as below : System -> Advanced Setting -> Resource Management



Please refer to following Resource Management table for 4CH and 8CH, these DVR have different Record and Playback mode as below:

4CH Resource Management and Recording/Playback mode		Maximum Record/Playback resolution and frame rate for each channel)	
Set up Mode	Record and Playback mode	Function	Note
4 Channel D1	4 Channel D1 Encode + 4 Channel D1 Playback	Any channel can Record/Playback maximum: NTSC: 15Fps D1, 30FPS(HD1, CIF) PAL: 12Fps D1, 25FPS(HD1, CIF)	Just press “ OK” to finish set up, no need click channel no.
4 Channel CIF	4 Channel CIF Encode + 4 Channel CIF Playback	Any channel can Record/Playback maximum NTSC: 30FPS CIF PAL: 25FPS CIF, can not set up	Just press “ OK” to finish set up, no need click channel no.

		D1/HD1 in 5.3.7 Record Resolution	
4 Channel HD1	4 Channel HD1 Encode + 4 Channel HD1 Playback	Any channel can Record/Playback maximum NTSC: 30FPS(HD1, CIF) PAL: 25FPS(HD1, CIF), can not set up D1 in 5.3.7 Record Resolution	Just press “ OK” to finish set up, no need click channel no.
1 Channel D1 + 3 Channel CIF	1 Channel D1 Encode + 3 Channel CIF Encode + 2 Channel D1 Playback	NTSC: Record/Playback 30FPS(D1, HD1, CIF) PAL: Record/Playback 25FPS(D1, HD1, CIF) Playback only two channels mixed	Click only one channel to have maximum 30FPS or 25FPS D1/HD1, others are CIF
8CH Resource Management and Recording/Playback mode		Maximum Record/Playback resolution and frame rate for each channel	
Mode	Record and Playback mode	Function(Can playback 8 Channels)	Note
8 Channel D1	8 Channel D1 Encode + 8 Channel D1 Playback	Any channel can Record/Playback maximum: NTSC: 7FPS(D1), 15FPS(HD1), 30FPS(CIF) PAL: 4FPS(D1), 12FPS(HD1), 25FPS(CIF)	Just press “ OK” to finish set up, no need click channel no.
8 Channel CIF	8 Channel CIF Encode + 8 Channel CIF Playback	Any channel can Record/Playback maximum NTSC: 30FPS CIF PAL: 25FPS CIF, can not set up D1/HD1 in 5.3.7 Record Resolution	Just press “ OK” to finish set up, no need click channel no.
8 Channel HD1	8 Channel HD1 Encode + 8 Channel HD1	Any channel can Record/Playback maximum NTSC: 15FPS(HD1),	Just press “ OK” to finish set up, no need click channel no.

	Playback	30FPS(CIF); PAL: 12.5FPS(HD1), 25FPS(CIF), can not set up D1 in 5.3.7 Record Resolution	
1 Channel D1 + 7 Channel CIF	1 Channel D1 Encode + 7 Channel CIF Encode + 1 Channel D1 Playback	NTSC: Record/Playback 30FPS(D1, HD1, CIF) PAL: Record/Playback 25FPS(D1, HD1, CIF) Playback only one channel	Click only one channel to have maximum 30FPS or 25FPS D1/HD1, others are CIF
2 Channel HD1 + 6 Channel CIF	2 Channel HD1 Encode + 6 Channel CIF Encode + 2 Channel HD1 Playback	NTSC: Record/Playback 30FPS(HD1, CIF) PAL: Record/Playback 25FPS(HD1, CIF) Playback only 2 channels mixed can not set up D1 in 5.3.7 Record Resolution	Click only two channels to have maximum 30FPS or 25FPS HD1, others are CIF

5.3 Record Setting



5.3.1 Video Channel

Select channel number for apply record setting. Select [ALL] for apply to all channels.

5.3.2 Record Schedule



- ① . The current recording channel number
- ② . The record schedule
- ③ . Description of record type
 - **no record (white○)**: No recording during this time
 - **common record (blue●)**: Recording always
 - **move record (green●)**: Motion-detection triggered recording
 - **alarm record (red●)**: Alarm-triggered recording
 - **move and alarm record (yellow●)**: Recording triggered by either alarm or motion detection.

System provides a recording option for 24 hours every day and Sunday through Saturday every week. Unit is hour. One grid indicates one hour.

Mouse set up- select a record type, move to a time grid, left click it or hold it, and dragging to the desired region; color of the grid will change relevantly; left click the week day if you want that day with all the same record type.

Faceplate or Remote control buttons –

Using **【Direction】** buttons to a time grid, select the record type by repeat pressing **【Enter】** button until done; or press the $\square/\boxplus$ or $\boxplus/\boxtimes$ (**faceplate button**), or **[FN]** (**remote control**), and dragging to the desired region, and press again to finish; color of the grid will change relevantly; Move to the week day, and repeat pressing **【Enter】** button until done if you want that day with all the same record type.

Select OK to confirm settings. **The settings will take effect after being saved.**

When motion detection & alarm recording is selected, the motion detection sensitivity and area should be set ahead. Please refer to [5.4.6 Motion Detection Settings](#) for details. When alarm recording is selected, the alarm triggering settings should be set ahead. Please refer to [5.6.3 Event Handling](#) for details; the recording time would be 30 sec. when motion detect or alarm happened except continuous happened, which will be accumulated to the last one.

5.3.3 Video Quality

Select quality level for record audio/video. The pre-define selection from Best 768kbps → High 640kbps → Mid 512kbps → Low 384kbps or user define. User can manually input bit rate for recording. (Kbit/s). The higher video bit rate would impact network remote viewing if you don't open the sub code(sub streaming) for dual streaming, please refer to [5.3.8 Dual Streaming](#).

5.3.4 Record Frame Rate

Select recording frame rate per second. The pre-define selection from Full (30/25fps) → 15 fps → 7fps → 3fps → 1 fps or user define; please refer to [Chapter 5.2.9 Resource Management for details](#)

5.3.5 Record Source

Two type selection of recording, Video with audio or Video(CH5 ~ CH8 only can have "Video")
Only select "Video with audio", can hear the sound via internet or playback

5.3.6 OSD Setting

Define OSD (On Screen Display) string. The options have as following

- 1) Camera's Name and Time Stamp
- 2) Camera Name
- 3) Time Stamp
- 4) None

Only select "Time Stamp", can see time display when playback

5.3.7 Record Resolution

Choose record resolution of the channel selected, and must choose the same resolution for all channels, please refer to [Chapter 5.2.9 Resource Management for details](#)

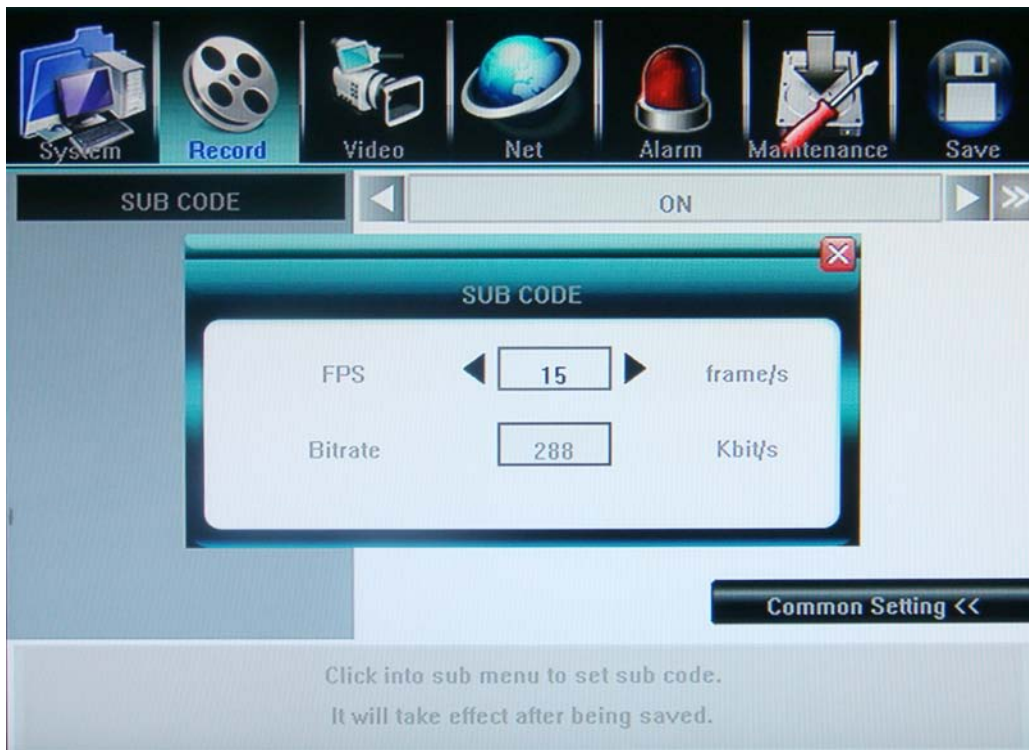
- 1) CIF(352 x 240, or 352 x 288)
- 2) Half D1(704 x 240, or 704 x 288)
- 3) D1(704 x 480, or 704 x 576)

Please note 4CIF=2 Half D1=D1, so that "Record Frame Rate" would be reduced automatically even you set up as "Full" for D1 and Half D1.

5.3.8 Dual Streaming for Network(Record-Advanced Setting)

◆ SUB CODE

By default, DVR use recording streaming for IE Browser viewer and mobile streaming. Enable sub code can customize the frame rate and bitrate for IE client viewer and mobile streaming in case of limited upload bandwidth, and they can be setup independently for every channel. For IE set up, please refer to [Channel→ Camera setting, Sub Bitstream, Subcode](#)



5.4 Video Setting



5.4.1 Camera Channel

Select camera channel for apply camera setting. Select [ALL] for apply to all channels.

5.4.2 PTZ Protocol

Select PTZ device protocol. Support CLT-618, JY2000, Philip, Pelco-D, Pelco-P, Panasonic, Samsung, SYYT, TD500, Tiandy, VIDO, VTS, YAAN, Yiboer and etc.

5.4.3 PTZ Baud Rate

Select PTZ device baud rate. Support 1200, 2400, 4800, 9600.

5.4.4 PTZ ID

Select PTZ device ID. From 0~255

5.4.5 Color Setting

Adjust camera color attribute, by default the value is 8.

- Brightness: 1 ~ 16
- Contrast: 1 ~ 16
- Hue: 1 ~ 16
- Saturation: 1 ~ 16

5.4.6 Motion Detection Setting

Enable this function and click the  of the Motion Detection”, you can find the following setup

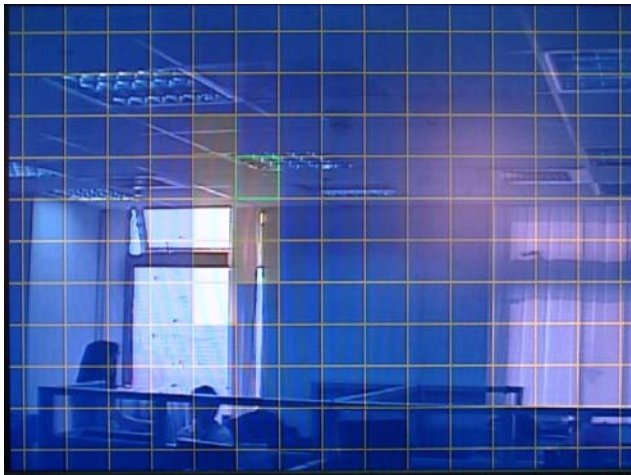
◆ Sensitivity of motion detection

There are three level sensitivity of motion detection.

Highest → Normal → Low or Disable

◆ Configure motion detection by region.

Press **[>>]** on screen to pop up sub windows for region setting.

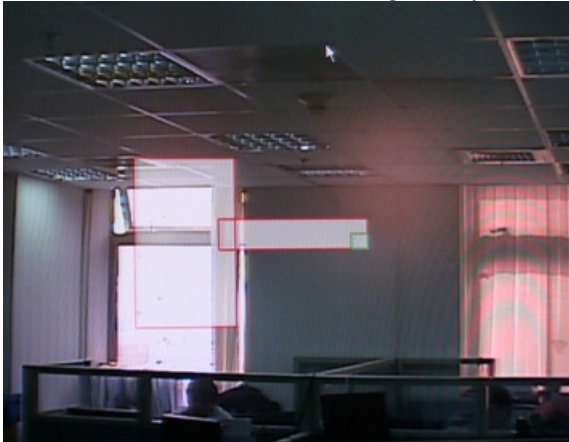


There are totally 16 x 12 individual blocks for a camera view. Each cell can be turn on(**Blue**) or off(**Clear**) by single mouse left-click, or press  or  (**faceplate button**), or press **[FN]** (**remote control**); you may define multiple-cell areas by clicking mouse or pressing button on one cell and dragging the selection in the desired direction, press or click again to confirm; by mouse right-click or press **[ESC]** to finish the setting.

5.4.7 Privacy Mask(Mosaic)

Each camera can define multiple regions for privacy protection. Click **[>>]** open sub windows By single mouse left-click; or press  or  (**faceplate button**), or press **[FN]** (**remote control**), and define the single cell by **[Enter]** (**faceplate or remote**

control button); or you may define multiple-cell areas by clicking mouse or pressing button on one cell and dragging the selection in the desired direction, press **[Enter]** (**faceplate or remote control button**) to define the region; by mouse right-click or press **[ESC]** to finish the setting.

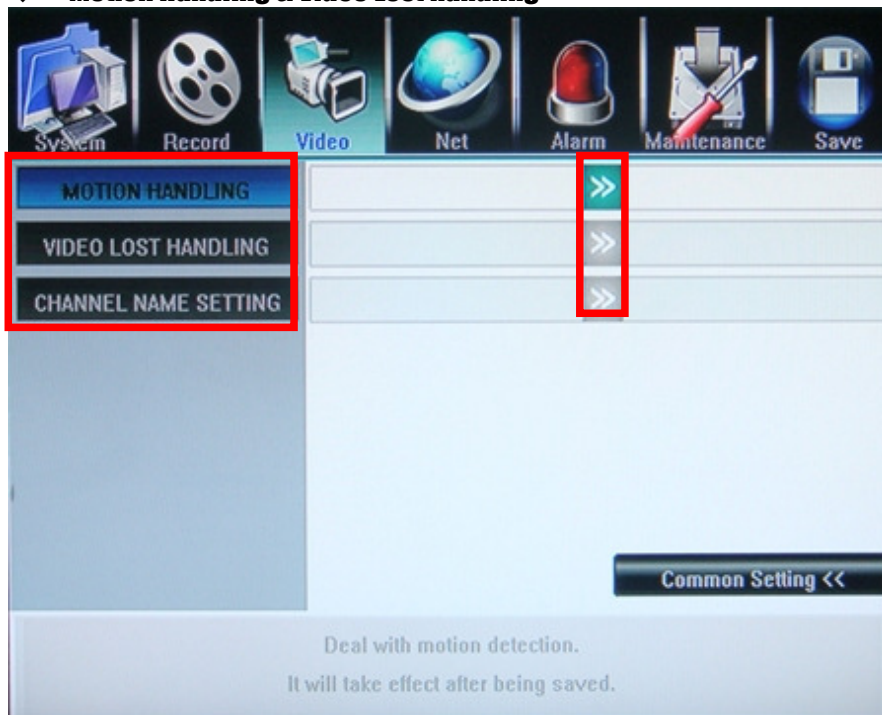


To cancel the privacy region, by use mouse/ left-click, or press  or  (**faceplate button**), or press **[FN]** (**remote control**) to move to the privacy region, and press **[ECS]** or mouse/right-click to confirm; by mouse right-click or press **[ESC]** again to finish the setting and return back to manual.

Each privacy region will show only gray color in live view windows and being recorded.
Support Maximum 4 regions.

5.4.8 Motion, Video Lost and Channel Name(Video- Advanced Setting)

◆ Motion Handling & Video Lost handling



User can pre-define correspond actions while DVR handling the event such as motion detection, video lost, following is the action list,

- Record: Start record immediately for selected channels

- Alarm Zoom Out: display channels when motion happened, please refer to [5.6.4](#)
- Alarm Out: Set the Alarm output enable
- Buzzer: Set the internal Buzzer enable
- E-mail: Send E-mail with Snapshot picture (please refer to [5.5.6 E-mail Server](#) about how to set up the E-mail address list)
- UPLOAD: upload these events message to IE or CMS server, to be displayed at the top right corner



Motion Detect

Video Loss

- ◆ **Channel Name Setting** – at most 16 characters, but only can display 11 characters

5.5 Net Setting

5.5.1 Network(Static IP/DHCP)

DVR support two methods to acquire IP address,

- Automatic acquire IP address by DHCP client model.
- Manual assign IP address by Static IP model.



System	Record	Video	Net	Alarm	Maintenance	Save
NETWORK						
Static IP						
IP ADDRESS	122	.	146	.	124	. 52
SUBNET MASK	255	.	255	.	255	. 240
GATEWAY	122	.	146	.	124	. 49
HTTP PORT	80					
COMMAND PORT	5050					
MEDIA PORT	6050					
Next page >						
Set the gain way of network address. It will take effect after being saved.						

PPPoE for ADSL dial-up network are supported, please click Next Page.

5.5.2 Http Port

By default is port:80, user can specify different port number.

5.5.3 Command Port

By default is port:5050, user can specify different port number.

5.5.4 Media Port

By default is port:6050, user can specify different port number.

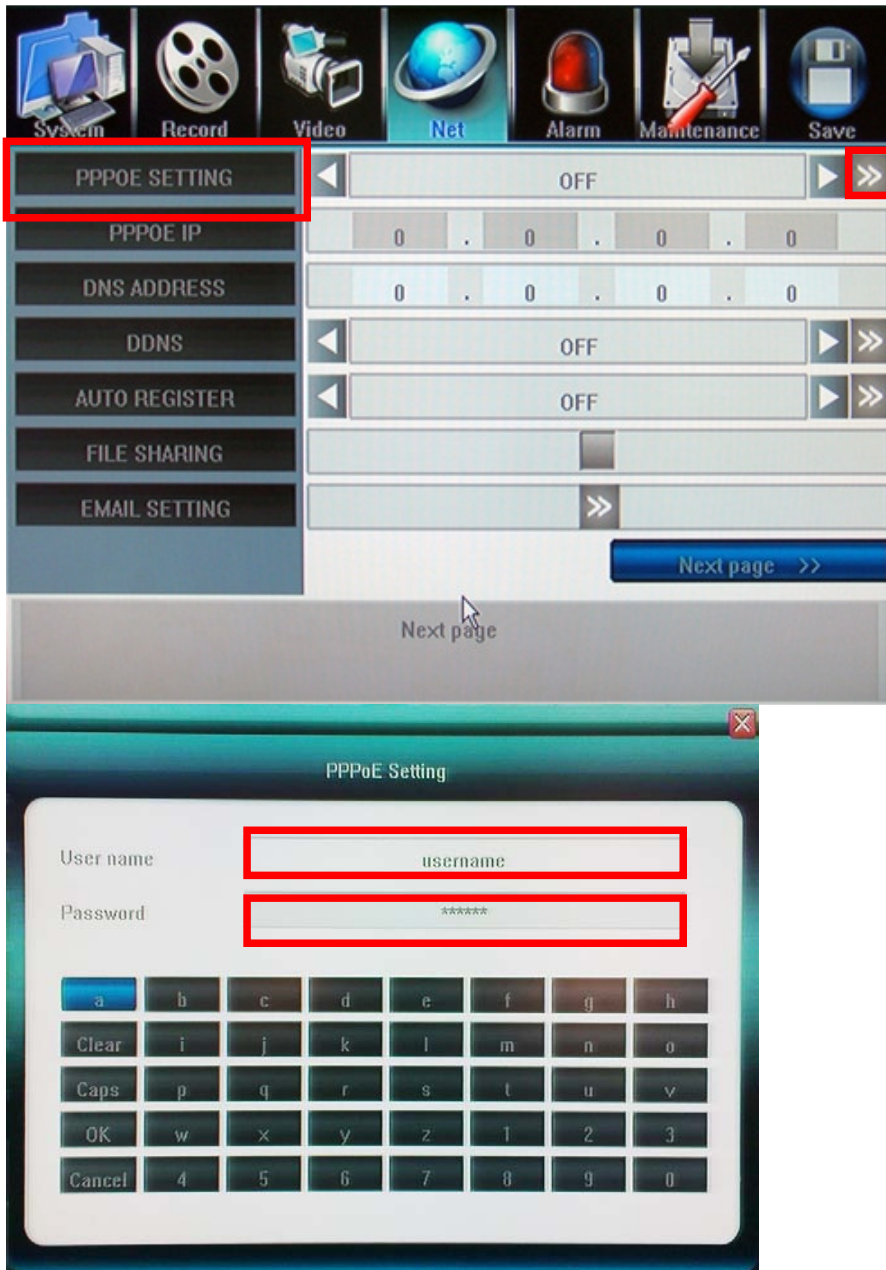
If DVR installed behind a Router to share a single public IP address. Be sure to configure the "Port Forwarding" or "Virtual Server" for those three network port and Mobile surveillance Port:7050; you may surf <http://portforward.com> for more information.

Http port:80, Command port:5050, Media port:6050 and mobile surveillance port:7050 must open/allow to upload to WAN interface if DVR installed behind a Firewall server; for port no., please refer to <http://www.iana.org/assignments/port-numbers> for more information

5.5.5 PPPoE/DDNS(Net- Second Page]

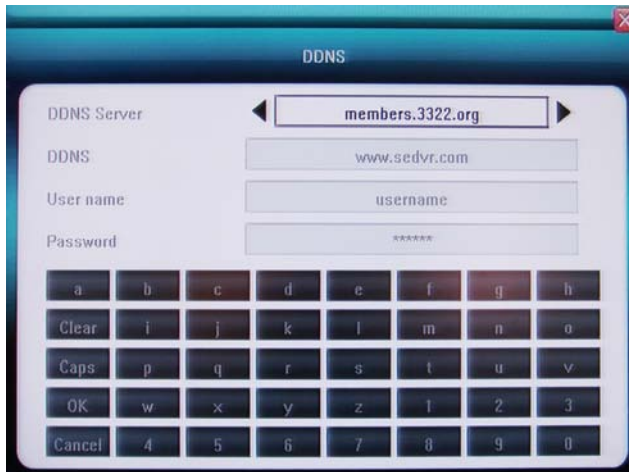
◆ PPPoE Setting

Click 【>>】 to open sub window and input ADSL account and password from Internet Service Provider.



◆ DDNS

Click 『>>』 to open sub window and input DDNS account and password from DDNS Service Provider. User must apply DDNS service account at first.



update.ods.org
www.justlinux.com
www.hn.org
members.3322.org
members.dyndns.org
www.EZ-IP.net
members.dhs.org

www.easydns.com
www.dyns.cx
www.zoneedit.com
[members.3322.org\(static\)](http://members.3322.org(static))
[members.dyndns.org\(static\)](http://members.dyndns.org(static))
www.penguinpowered.com
cgi.tzo.com

◆ Auto Register

DVR can configure to automatically register to CMS, **input CMS Server IP address, Server Port: 8003(default) and register time interval in seconds(register to CMS server if failed); it is not necessary setup because you can add this DVR in CMS server manually.**



◆ File Sharing

Check to activate files sharing function, then able to visit video files in DVR HDD via network neighborhood.

How to visit shared files:

Double click network neighborhood, input ftp://IP address, such as ftp://192.168.10.220 , to enter the login page, type in the super authority “Admin” and password, the shared files can be accessible now, click into folder of “videout” to check video files.

5.5.6 Email Server set up for Email notify

User can add multiple e-mail address of recipients for alarm, motion and video loss notification. Input standard SMTP mail server IP address. Please make sure you have user account and password in advance.

The **Email To** field indicates the recipients of alarm emails, and the **Email From** field indicates the email account from which the message will be sent. You can input the **Email To** field and [ADD] it into the list of recipients. You can [VIEW] the list of recipients in the **Email to list**, where you can delete if no need any more. [SSL] option is necessary if you use Gmail.

No.	Email To
1	username@server.com

You may use [TEST] to test the Email to list while input, to make sure that they are communicated, please remember the server information and **Email From** information must be corrected, and DVR must be internet connected before [TEST]

5.5.7 UPnP and Mobile port(3 rd page in Net Setting)

Go to Net -> Next page -> Next page, you can see following

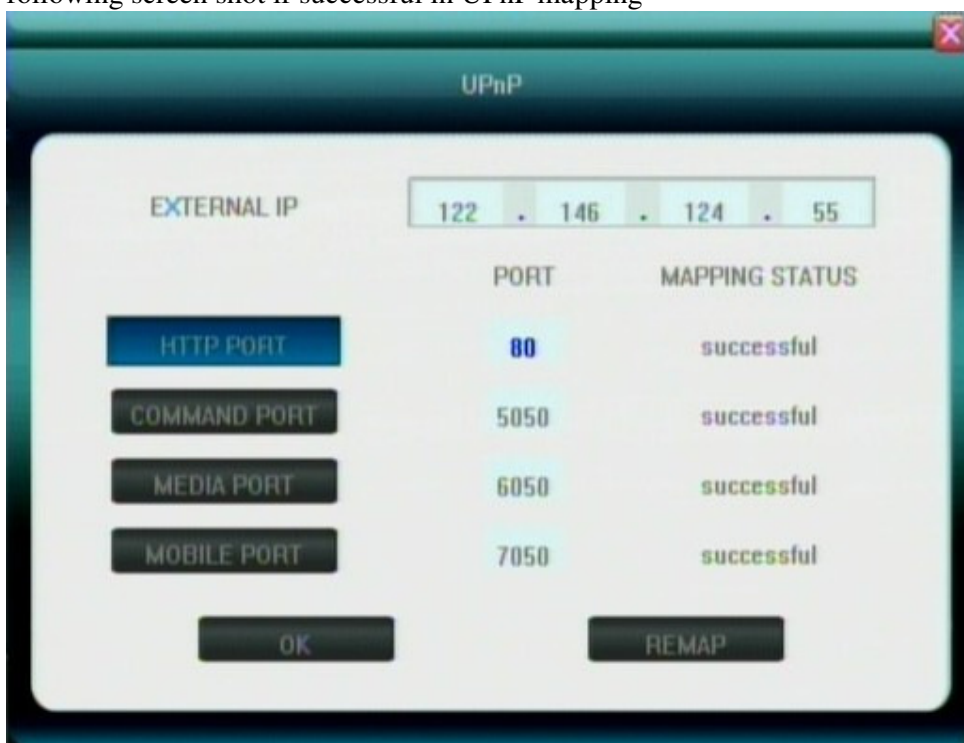
◆ UPnP

Enable UPnP function if it connected UPnP router, no need to open the ports(port forwarding, port mapping) inside the router, please note:

- ◆ The UPnP function of the router connected must be enabled
- ◆ The router must connect internet, not intranet
- ◆ If still can not pass through the router, you may change the port no.(80, 6001, 6002, 6003) and try again .



Click the , it will appear “**Query port mapping status**” message, and you will find the following screen shot if successful in UPnP mapping



◆ **Mobile PORT**

By default is port: 7050, user can specify different port number, please refer to [Chapter 7. 3G/3.5G Mobile Phone/PDA Support](#) for details.

5.6 Alarm Input/Output Setting

5.6.1 Alarm Input Channel



- Select alarm input channel for apply record setting. Select [ALL] for apply to all channels.

5.6.2 Alarm Input Type

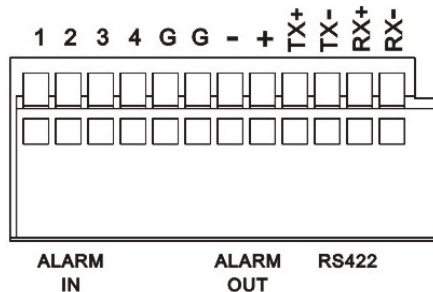
The alarm input attribution includes N/O. and N/C.

Each camera has one input pin on Terminal Block at the real panel.

User must use voltage output type sensor to connect alarm input interface.

Sensor device output **POSITIVE (+)** pin connect to DVR's input pin (1~4 pin)

Sensor device output **GROUND (-)** pin connect to DVR's G pin (5~6) pin

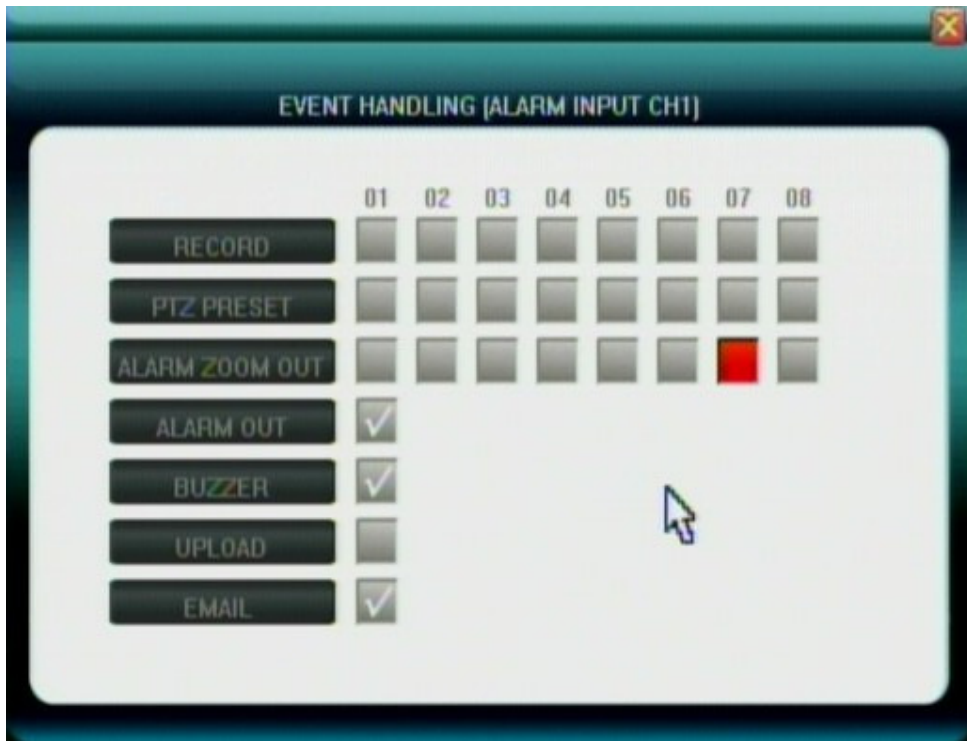


N/O.: Normally open. Sensor must constant output low level voltage. If output voltage change from Low level to High level then DVR will be triggered.

N/C.: Normally connected. Sensor must constant output High level voltage. If output voltage change from High level to Low level then DVR will be triggered.

Maximum high level voltage is 5V_{DC}

5.6.3 Event Handling



User can pre-define correspond actions while DVR handling the Alarm event.

- Record: Start record immediately for selected channels
- PTZ PRESET: set up the PTZ preset position for selected channels
- Alarm Zoom Out: Set the pop up selected channels, please refer to [Chapter 5.6.4](#)
- Alarm Out: Set the Alarm output enabled
- Buzzer: Set the internal Buzzer enable
- Upload: upload these events message to IE or CMS server, to be displayed at the top right corner
- E-mail: Send E-mail with Snapshot picture(please refer to [5.5.6 E-mail Server](#) about how to set up the E-mail address list)

Note1: if user wants to set alarm triggered record, please set the record schedule first at "Record Schedule".

Note2: if user wants to set alarm triggered PTZ, please select the channel number first, and then to set (only preset 1 can be selected)

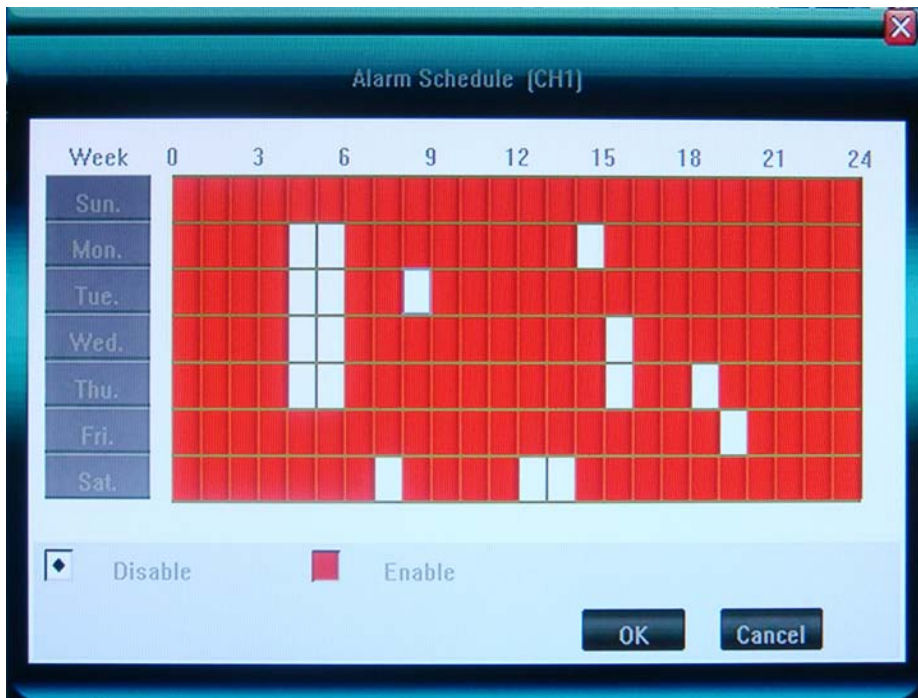
Note3: Event handling sound / report to alarm center need to be set in IE explorer. Please refer to [Chapter 6.3](#)

5.6.4 Alarm Setting(Schedule), Zoom Out and Hard Disk Full actions

◆ ALARM SETTING - Alarm Schedule

Click [【>>】](#) to open sub window for alarm schedule setting.

User can enable/disable **alarm output** by weekly schedule, the unit is hour, enable is red, disable is white. There are **mouse/faceplate buttons/remote control operations for set up as well**, same as record schedule, you can refer to [5.3.2 Record Schedule](#) for details

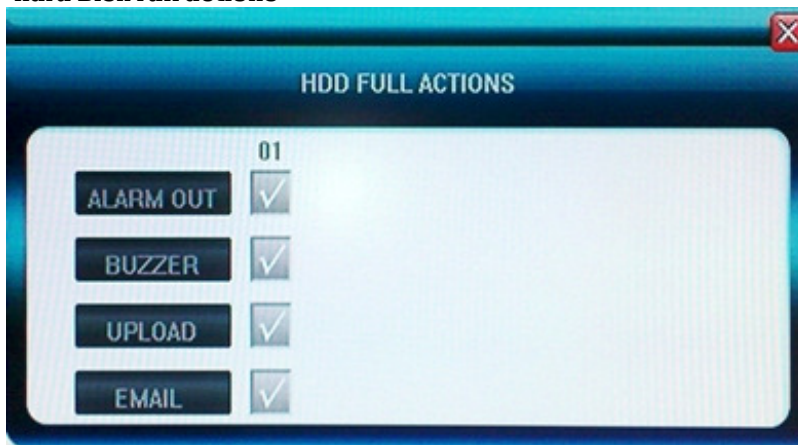


Please note Motion/Alarm Schedule recording dose not compliant to Motion/Alarm event(action) schedule

◆ **Alarm Zoom Out**

Set the time interval(seconds) for channels pop out display while alarmed(Motion and Sensor)

◆ **Hard Disk Full actions**



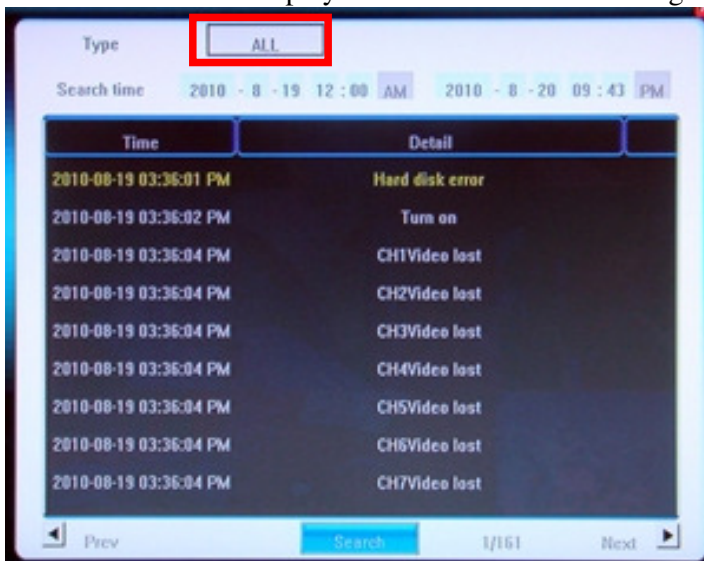
- Alarm Out: Set the Alarm output enabled
- Buzzer: Set the internal Buzzer enable
- Upload: upload these events message to IE or CMS server, to be displayed at the top right corner
- E-mail: Send E-mail with Snapshot picture(please refer to **5.5.6 E-mail Server** about how to set up the E-mail address list)

5.7 Maintenance



5.7.1 Log View

1. Select the type of log to be searched: All/ Operation/ Exception/ Alarm.
2. Select the time scope to be searched(it will display AM/PM if select correct [Time Display format](#))
3. Click Search to display the detail information of log.



Note: The maximum number of logs supported currently is 3000. The storage mode adopts overwrite mode: continuously overwrite the oldest data when the database is full.

5.7.2 Software Upgrade

The upgrade modes supported now are USB & IE Remote Software:

USB : Please make sure the USB device is connected correctly and the upgrade applications have already being copied into **USB root directory**. **We suggest to use fresh USB Flash Disk for upgrade to prevent crash**, Please follow the prompts to operate. After accomplishing upgrade, press confirm button to restart.

5.7.3 HDD Manage

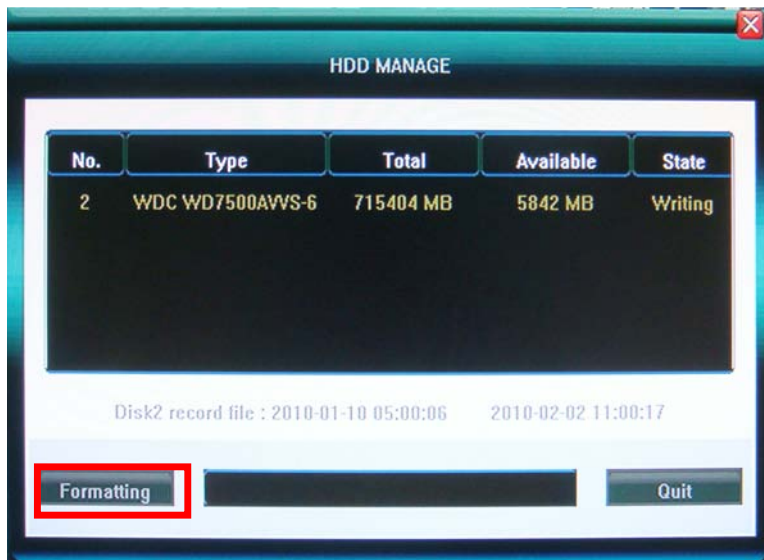
HDD must be formatted by DVR before start recording audio/video.

Click 【>>】 to open sub window and format the HDD by DVR.



HDD information will display on the windows if DVR detection HDD correctly.

Click 【Formatting】 to start HDD format.



5.7.4 HDD Capacity

Show DVR current HDD capacity status.

5.7.5 Hardware Version

Show DVR current hardware version.

5.7.6 Software Version

Show DVR current software version.

5.7.7 Software Release Date

Show DVR current software release date.

5.8 Save Setting



5.8.1 Save & Exit

Save all setting and exit menu.

5.8.2 Exit

Exit menu without save setting.

5.8.3 Restore defaults

Reset all configuration to factory default

The system language, time, camera PAL/NTSC system, and network settings (IP address, subnet mask, gateway, HTTP port) will not be recovered by restoring to factory defaults.

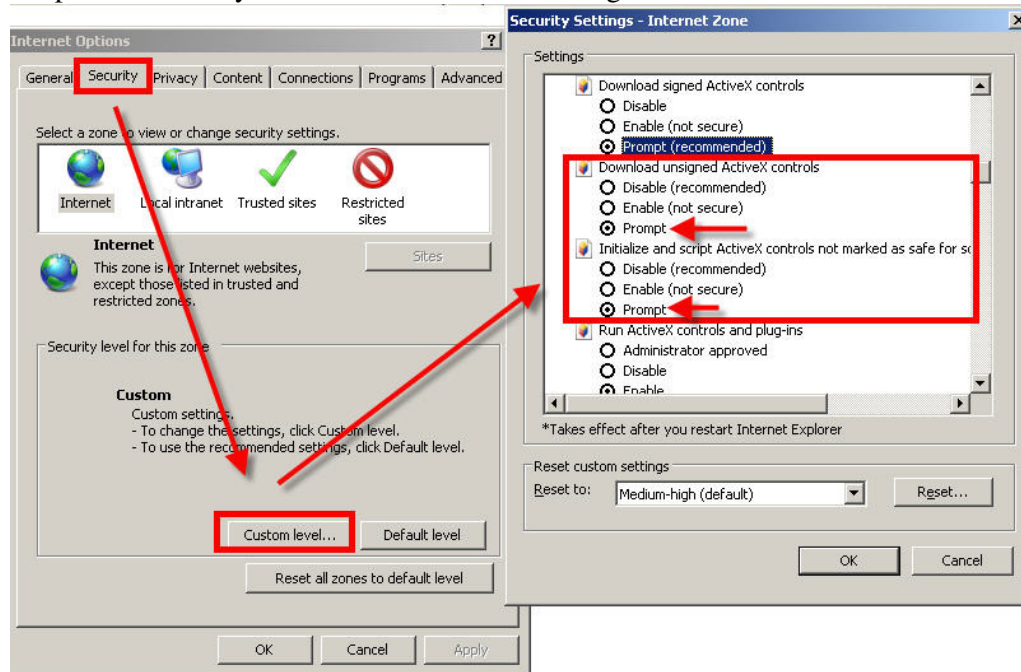
5.8.4 Logout

Save all setting and exit menu.

6. Web Browser Operation(IE Browser only)

6.1 Enable Download Un-singed ActiveX Control if necessary

User's computer need download ActiveX components for web access at the first time connect to DVR. If user's Internet explorer prohibits the download action(the DVR software is unsigned) then please manually enable the download of un-singed ActiveX in IE.



Download unsigned ActiveX controls → Enable or Prompt

Initialized and script ActiveX controls not marked as safe → Enable or Prompt

6.2 Turn off UAC for Windows 7 and Vista

To prevent unexpected troubles by ruing IE or CMS, we strongly suggest to disable UAC(User Account Control) for Windows 7 and Vista. To perform the following procedure, you must be able to log on with or provide the credentials of a member of the local **Administrators** group.

Important

Turning off UAC reduces the security of your computer and may expose you to increased risk from malicious software. We do not recommend leaving UAC disabled.

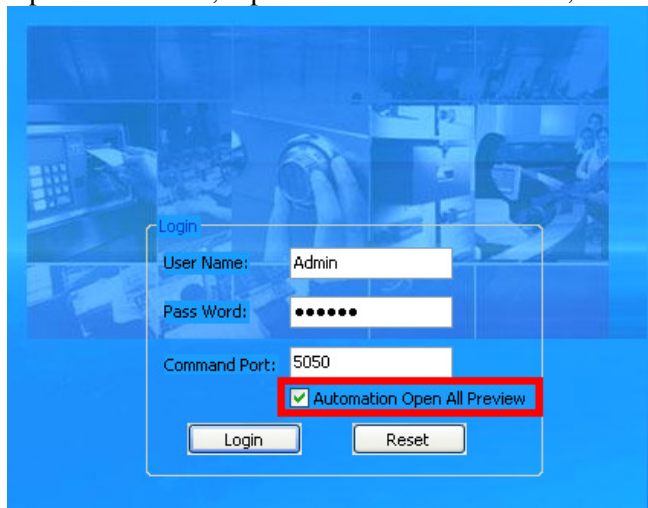
To turn off UAC

1. Click **Start**, and then click **Control Panel**.
2. In **Control Panel**, click **User Accounts**.
3. In the **User Accounts** window, click **User Accounts**.
4. In the **User Accounts** tasks window, click **Turn User Account Control on or off**.
5. If UAC is currently configured in Admin Approval Mode, the **User Account Control** message appears. Click **Continue**.
6. Clear the **Use User Account Control (UAC) to help protect your computer** check box, and then click **OK**.
7. Click **Restart Now** to apply the change right away, or click **Restart Later** and close the **User Accounts** tasks window

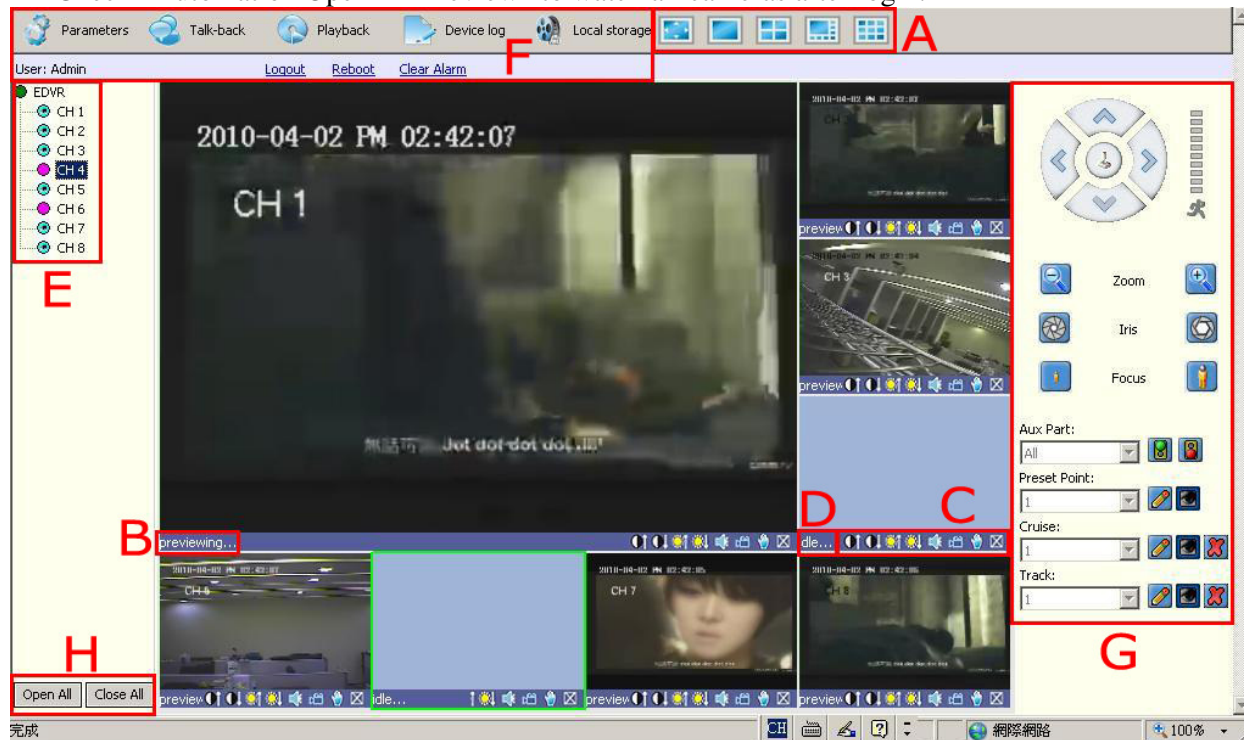
Source info: <http://technet.microsoft.com/en-us/library/cc709691.aspx>

6.3 Web Browser Main Screen

Open IE browser, input IP address of the DVR, the Login windows will appear.



Check “Automation Open All Preview” to watch all cameras after login.



A. Camera view window: Full Screen /1 camera / 4 cameras / 8 cameras /9 cameras

B. Camera view is previewing

C. Camera view tools

: Adjust image contrast up/down.

: Adjust brightness up/down.

: Start/stop voice monitoring([Chapter 5.3.5](#)). The icon will turn to green when recording.

: Start/stop recording. The icon will turn to green when recording.

 : Click to snapshot.

 : Stop preview, the  will turn to  on the **E** Available Camera list

D. Camera view is idle if not opened

E. Available Camera list: double right-click the  to open the channel

F. Tools Bar  Parameters  Talk-back  Playback  Device log  Local storage

The description of icons from left to right is:

- Parameters: configure device parameters(set up), please refer to [6.5 Device Parameters Settings](#)
- Talk-back: use channel 1 only, please open PC microphone and speakers, and DVR need to connect active microphone/speaker
- Playback: Search and playback record files, please refer to [6.6 Video Files Playback & Download](#)
- Device log: View logs and export them, please refer to [6.6.3 Device Log](#)
- Local storage: Set the storage directory of record files and pictures captured

User: Admin [Logout](#) [Reboot](#) [Clear](#)

From left to right: Current Login Account, Log-out, Restart DVR remotely, Clear alarm

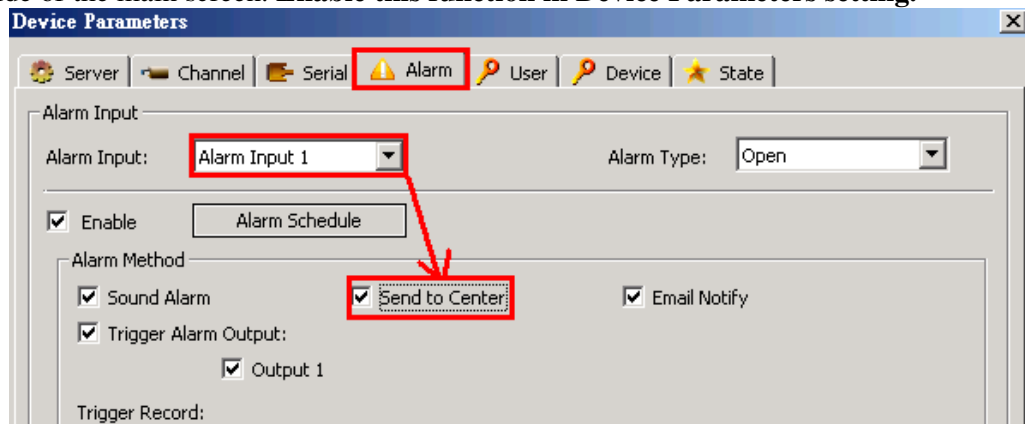
G. PTZ Control

[Please refer to 4.8 PTZ Control](#)

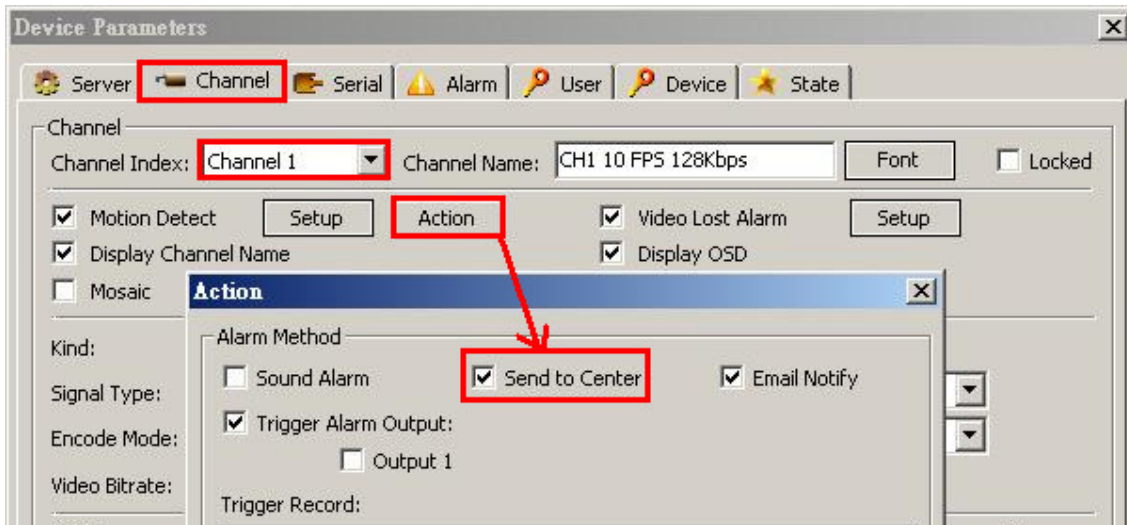
H. Open All/Close All: open or close all the channel preview

6.4 Alarm Notification

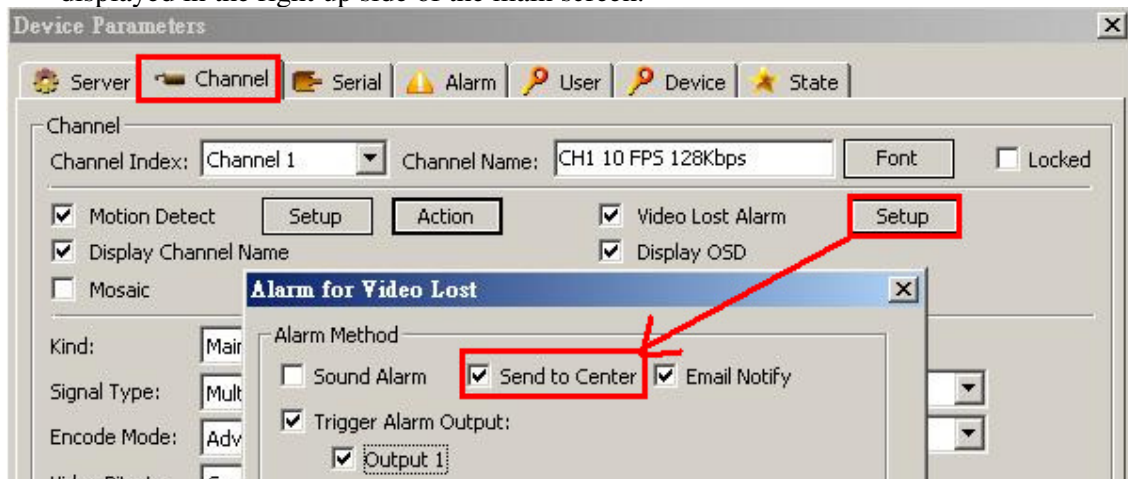
- ◆ When network connection is broken or abnormal, the alarm notification of “**No heartbeat of device, please check the network!**” will be displayed in the right up side of the main screen. After recovery of network, the preview will be displayed automatically.
- ◆ When alarms of remote notification occur, the alarm notification with alarm input number contained such as “**Device alarm: IO alarm, IO input x**” will be displayed in the right up side of the main screen. **Enable this function in Device Parameters setting.**



- ◆ When alarms of motion detection with remote notification occur, the alarm notification with the alarm channel number contained such as “**Device alarm: motion detection, channel X**” will be displayed in the right up side of the main screen.



- ◆ When alarms of video loss with uploading to center occur, the alarm notification with the alarm channel number contained such as “**Device alarm: video loss, channel x**” will be displayed in the right up side of the main screen.



6.5 Device Parameters Settings

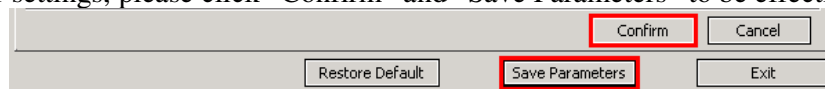
Click  Parameters, the Device Parameters will appear

Device Parameters



, please refer to [Chapter 5 DVR Settings](#) as well. After settings, please click “Confirm” and “Save Parameters” to be effective for

each setting window:



- ◆ **Server→Network setting, video system** – please refer to [Chapter 5.5 Net Setting](#) as well, for , please refer to [5.2.9 Resource Management](#)

Device Parameters

Server Channel Serial Alarm User Device State

Device Configuration

Device Name: KW3278 Device Type: DVR

Device ID: 1 Channel Count: 8

Alarm Input: 4 Alarm Output: 1

Hard disk Count: 1 Device SN: 720c3728

Overwrite: Enable Signal Standard: NTSC

Net Configuration

IP Address: 192 . 168 . 0 . 10 Mac Address: 00:05:13:03:04:05

Subnet Mask: 255 . 255 . 255 . 0 Command Port: 5050

Gateway: 192 . 168 . 0 . 1 Media Port: 6050

Enable PPPoE: Enable PPPoE User Name: 73630742@hinet.net

PPPoE Address: 111 . 240 . 133 . 101 PPPoE Password: *****

Main DNS: 168 . 95 . 192 . 1 Secondary DNS: 168 . 95 . 1 . 1

☒ Domain Name: demo5.dvrdns.org members.dyndns.org

User Name: kenshih Password: *****

HTTP Port: 80 Mobile Port: 7050

Manage Host

☐ Enable Host: 192 . 168 . 0 . 1

Manage Host Port: 3031

Register Interval: 10 sec

Version Info

Software: V1.0.2 build 20101231

Hardware: V1.0.1

DSP Software: V1.0.1 build 20101222

Encoding mode configuration

Confirm Cancel

Restore Default Save Parameters Exit

◆ **Channel→ Camera setting, Record setting** – please refer to [5.3 Record Setting](#) and [5.4 Video Setting as well](#)

Device Parameters

Server Channel Serial Alarm User Device State

Channel

Channel Index: Channel 1 Channel Name: CH1 10 FPS 128Kbps Font ☐ Locked

☐ Motion Detect Setup Action ☒ Video Lost Alarm Setup

☒ Display Channel Name ☒ Display OSD

☐ Mosaic Setup

Kind: Main Bitrate ☒ Enable Subcode

Signal Type: Multiplex Stream Frame Ratio: FULL

Encode Mode: Advance H.264 Resolution: CIF

Video Bitrate: Good

Brightness: 11 Contrast: 7

Hue: 12 Saturation: 12

RECORD TIME ☒ Constant ☒ Motion Record ☐ Alarm Record ☐ Motion or Alarm ☐ None

DAY	0	3	6	9	12	15	18	21	24
Sun.									
Mon.									
Tues.									
Wed.									
Thurs.									
Fri.									
Sat.									

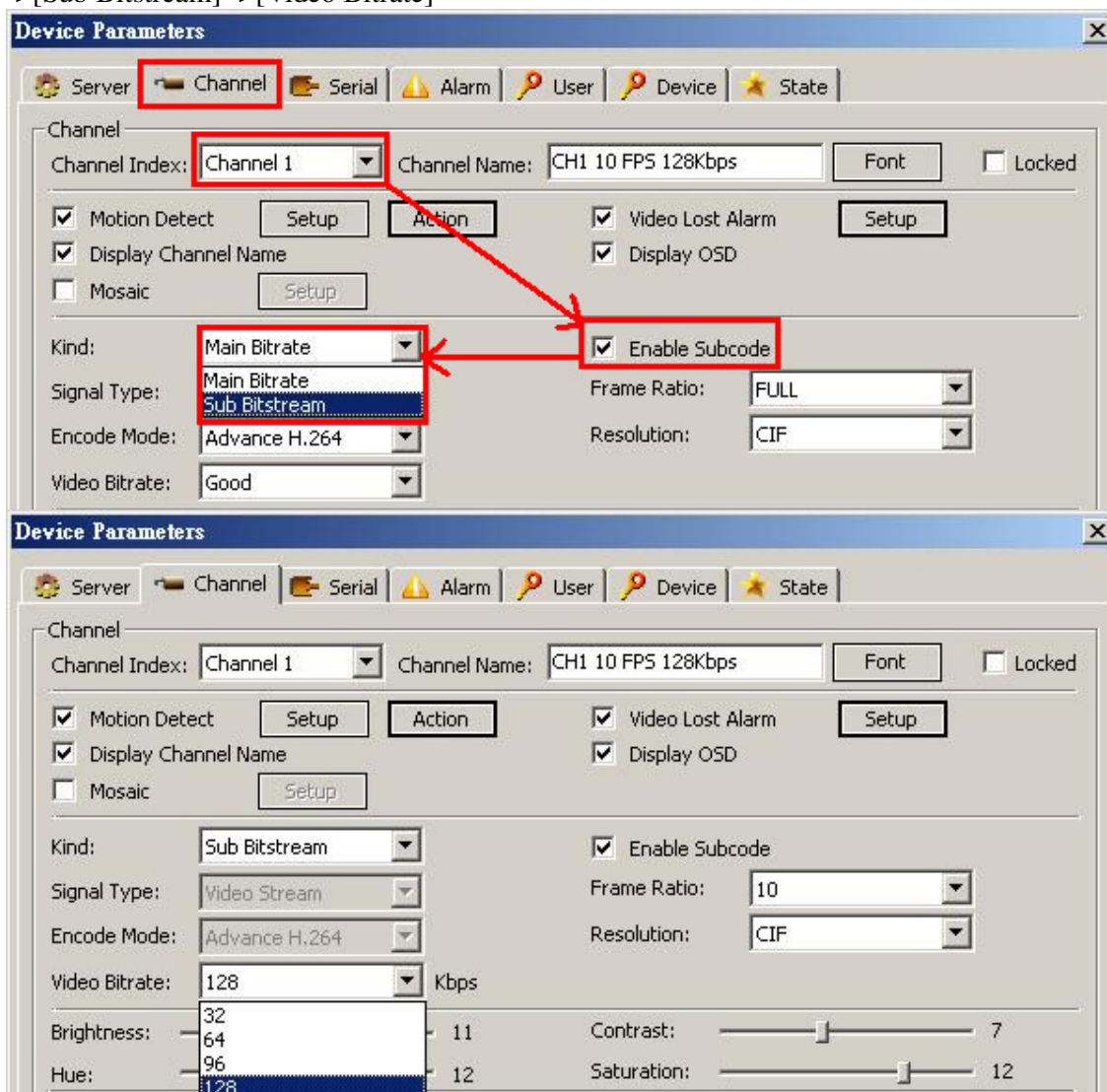
Copy To: All Channels Copy

Confirm Cancel

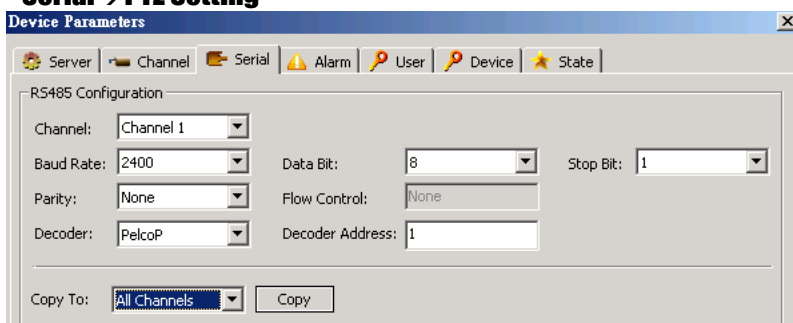
Restore Default Save Parameters Exit

◆ **Channel → Camera setting, Sub Bitstream, Subcode** – please refer to [5.3.8 Dual Streaming for Network\(Record- Advanced Setting\)](#) as well

For limited upload bandwidth of internet that DVRs connect, or limited streaming capability of some mobile phone/PDA, you have to adjust bandwidth of DVR to internet: [Enable Subcode] ->[Sub Bitstream] ->[Video Bitrate]



◆ **Serial → PTZ Setting**



◆ **Alarm → alarm input / output setting and HDD full action**

Device Parameters

Server Channel Serial **Alarm** User Device State

Alarm Input
 Alarm Input: Alarm Input 1 Alarm Type: Open

☒ Enable Alarm Schedule

Alarm Method
☐ Sound Alarm ☒ Send to Center ☒ Email Notify
☒ Trigger Alarm Output:
☒ Output 1

Trigger Record:
☒ Channel 1 ☐ Channel 8
☒ Channel 2
☐ Channel 3
☐ Channel 4
☐ Channel 5
☐ Channel 6
☐ Channel 7

PTZ Linkage
 Joint Channel: Channel 1 ☐ Preset Point: 1

Copy To: All Alarm Input Copy

Exception
 Exception Type: Hard disk Full ☐ Dispose: Setting

Confirm Cancel

Restore Default Save Parameters Exit

◆ **Device → Firmware upgrade , time synchronize and E-mail Notify setup**

Device Parameters

Server Channel Serial Alarm User **Device** State

Upgrade
 Upgrade File: Idle...
 Browse Start Upgrade Stop Upgrade

State: Idle...
 Progress:

Time Synchronization
 System Time: 2009-10-15 17:32:32 Synchronize

Email Notify
 Server Address: host.smtp.com Server Port: 25
 User Name: username Pass Word: *****
 Addresser: username@server.com

Addressee
 username@server.com

Add Modify Delete

Confirm Cancel

Restore Default Save Parameters Exit

◆ User → User account and authority setting

Device Parameters

Server Channel Serial Alarm **User** Device State

Super User
User1
User2
User3
User4
User5
User6
User7

Basic Information

User Name: Admin Binding IP: . . .

Password: ***** Confirm Password: *****

Binding MAC: 00 : 00 : 00 : 00 : 00 : 00

Local

- Ptz Control
- Manual
- Playback
- System Setup
- Clear Alarm
- Shut down
- Preview

Remote

- Ptz Control
- Manual
- Playback
- System Setup
- Clear Alarm
- Reboot
- Preview

☐ Accredited

☒ ---- Purview for all channels

☐ ---- Purview for no channel

Note: Fixed purview for super user

Confirm Cancel

Restore Default Save Parameters Exit

◆ State – HDD capacity, Channel and Network status

Device Parameters

Server Channel Serial Alarm User Device **State**

Hard disk State

Hard disk	Capacity	Remain	State
1	476940 MB	8877 MB	writing

Channel State

Channel	Record	Signal	Main Bitrate	Sub Stream	Sub Bitrate
1	Recoding	Has Signal	642 Kbps	Enable	180 Kbps
2	Recoding	Has Signal	649 Kbps	Enable	132 Kbps
3	Recoding	Has Signal	638 Kbps	Enable	183 Kbps
4	Recoding	Has Signal	672 Kbps	Enable	181 Kbps
5	Recoding	Has Signal	616 Kbps	Enable	130 Kbps
6	Recoding	Has Signal	638 Kbps	Enable	183 Kbps
7	Recoding	Has Signal	607 Kbps	Enable	188 Kbps
8	Recoding	Has Signal	630 Kbps	Enable	204 Kbps

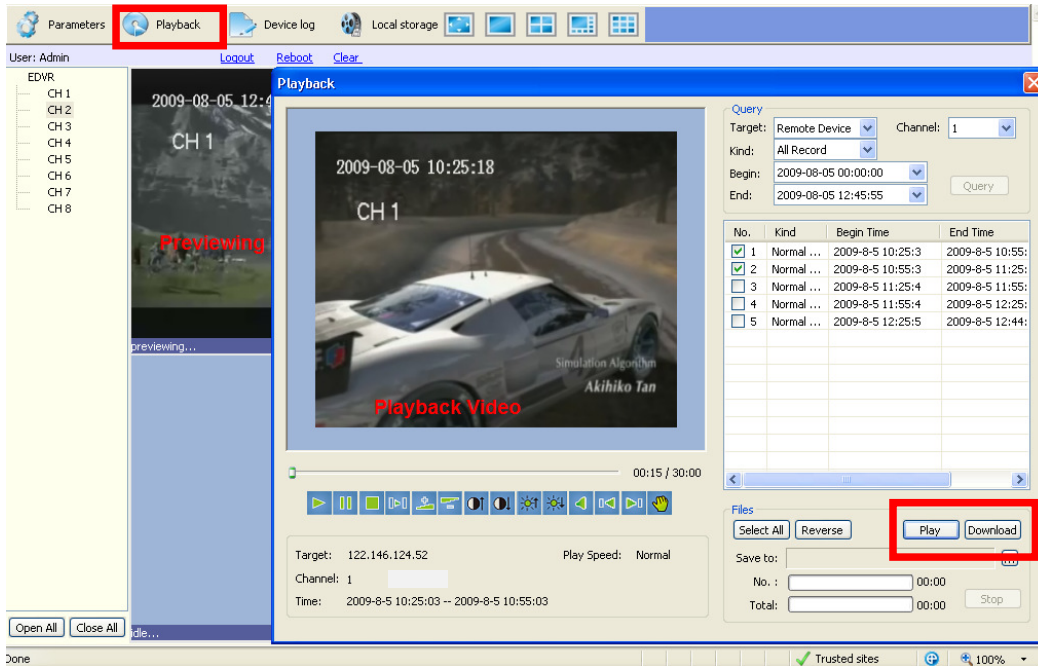
☒ Automatic Refresh (5s) Refresh

Restore Default Save Parameters Exit

6.6 Video Files Playback & Download

6.6.1 Video Files Playback

Click , the playback screen will appear. It includes video files search, playback and video files download.



◆ Video Files Search

The file search part is on the right upper side of the screen, please set target, type, start time and end time there. Then click  to start searching. The result will list on the table.

Specify the files in the table list and click on the playing control button or download button to do the relevant operations.



Search

Target: Remote Device Channel: 1

Kind: All Record

Begin: 2008-05-16 00:00:00

End: 2008-05-16 11:38:47

Search

◆ Video File Playback

The play control screen is on the left side of the screen. It includes image display area, play control bar, and channel information.

Click , the record files selected will be displayed in time order. The progress of playing is shown as the figure below:



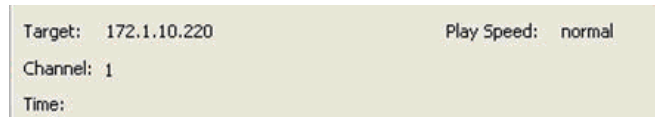
The playing control bar is shown as the figure below. The descriptions of all these icons from left to right are as follows:



Play ; **Pause** ; **Stop** ; **Go to next frame** ; **Fast play** option (The current speed of playing will be doubled by each clicking. It includes: 2X, 4X, 8X, and 16X); **Slow play** option (The current speed of playing will be half down by each clicking. It includes 1/2X, 1/4X, 1/8X, and 1/16X); **Enhance contrast** ; **Reduce contrast** ; **Enhance brightness** ; **Reduce brightness** ; **Open/close voice** ; **Go to previous file** ; **Go to next file** ; **Prompt file location**

(and) is enabled only when multiple record files being selected to play); **Snapshot** (the storage directory can be set on the pop-up screen by clicking).

The information of the record file selected will be displayed in the area shown as the figure below. It includes device's IP address, current play speed, channel number and start/end time of the record file.



6.6.2 Download Video Files

Click to set the storage directory of the video file. Click to start downloading, the format is **MPEG4 or AVI**, you may select.

Please refer to **Chapter 4.6** for playback downloaded **MPEG4** video by Windows Media player.

6.6.3 Device Log

Click , the screen of device logs will appear. There are four options for choosing: **All**, **according to time**, **according to type**, **according to time and type**.

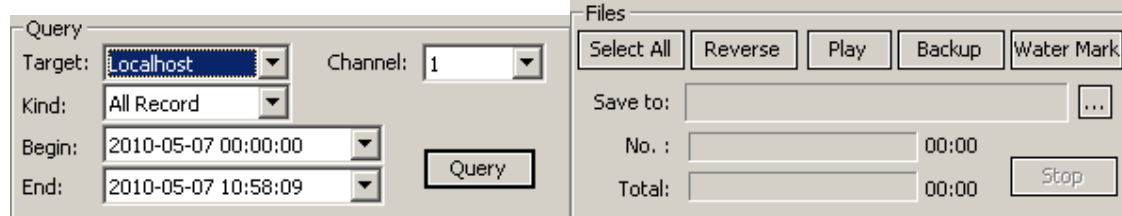
To search logs, please select the search mode and channel number needed first and then click to progress.

Click to export logs in html format.

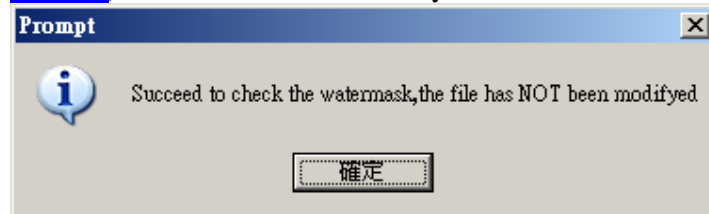
Log						
Log						
Query Kind: All		Channel: All		Query		
Type: All		Sub Type:		Export		
Begin Time: 2009-08-05 00:00:00		End Time: 2009-08-05 17:45:26				
No.	Type	Sub Type	Detail	Ch...	Time	Operate
1	Operation	Remote PTZ Control	None	7	2009-08-04 17:29:57	Admin
2	Alarm	Motion Detection Alarm End	None	7	2009-08-04 17:29:57	Admin
3	Operation	Remote PTZ Control	None	7	2009-08-04 17:29:57	Admin
4	Operation	Remote PTZ Control	None	7	2009-08-04 17:29:57	Admin
5	Operation	Remote PTZ Control	None	7	2009-08-04 17:29:58	Admin
6	Operation	Remote PTZ Control	None	7	2009-08-04 17:29:58	Admin
7	Operation	Remote PTZ Control	None	7	2009-08-04 17:29:58	Admin
8	Operation	Remote PTZ Control	None	7	2009-08-04 17:29:59	Admin
9	Operation	Remote PTZ Control	None	7	2009-08-04 17:29:59	Admin
10	Alarm	Motion Detection Alarm End	None	8	2009-08-04 17:29:59	Admin
11	Operation	Remote PTZ Control	None	7	2009-08-04 17:29:59	Admin

6.6.4 Water Mark Verification

All the record files for this DVR have watermark, but only MPEG4 format for verification. Select the “Local host” from Target, you will find the find the **Water Mark** shown up in the files Windows:



, click the **...**, to select the **MPEG4 file** from your PC, which may comes from Network back up as [Chapter 6.6.2 Download Video Files](#), or USB back up from local DVR([Chapter 4.6 Video Backup](#)), Click **Water Mark** to verify it, then it will shown following if watermarked.



6.7 Channels allocation in Camera view window

When display some certain Camera view windows like , you can disable some channels display by clicking , and you can see it turns to be pink  from camera list(left side), move **the green cursor** to the fixed channel, and right click the pink  of the camera you want to display from the camera list(left side):



7. 3G/3.5G Mobile Phone/PDA Support

Another state-of-the-art feature of this DVR device is transmitting live feed from the CCTV cameras to your mobile phone, so that you can have an 'on the go' access to your surveillance system from virtually anywhere in the world. Currently this feature is supported only for phones with the Windows Mobile, Nokia Symbian S60 3rd and 5th Edition OS, Google Android, Black Berry OS 4.x and Apple iPhone 3G/3GS/iPhone 4/iPad.

To streaming from 3/3.5G mobile phone or PDA, you have to open the mobile port of DVR, the default setting is 7050, which may be changed, please refer to [5.5.5 PPPoE/DDNS\(Net- Second Page\]](#) or IE [6.5 Device Parameters Settings](#) Server→Network setting, video system

For limited upload bandwidth of internet that DVRs connect, or limited streaming capability of some mobile phone/PDA, you have to adjust bandwidth of DVR to internet, please refer to [5.3.8 Dual Streaming for Network\(Record- Advanced Setting\)](#) or [6.5 Device Parameters Settings - Channel→ Camera setting, Sub Bitstream, Subcode](#) (from IE) for more details



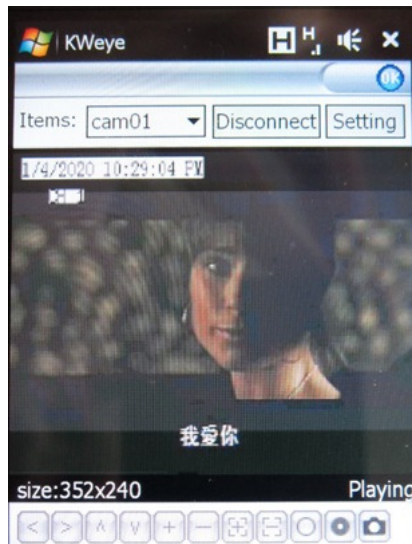
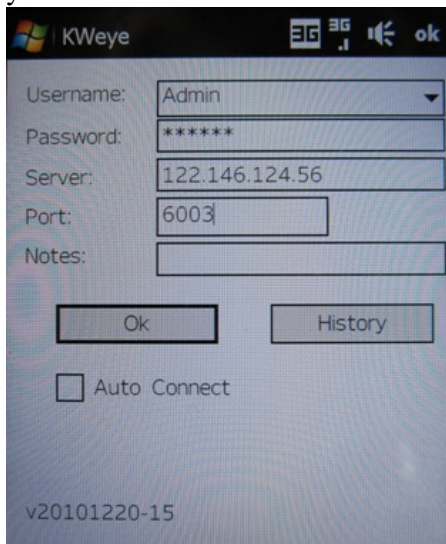
Note: Prior to using this feature, you should apply for the Internet connection service for your mobile phone, such as 3G or 3.5G. Please contact your mobile service provider for details.

You can only watch one live feed channel at a time with your mobile phone.

7.1 Windows Mobile

Find “**KWeyesetup.CAB**” in the /Mobile Phone Software/Windows Mobile from the installation CD, install it into your Windows Mobile phone. See your phone user manual for more details on application install.

Find and execute program KWeye, and click the  button to setup the IP address for your DVR.



In the ensuing screen, input the Username (Admin), Password, and IP address(or DDNS) of your DVR (Server); input the mobile Port no.(default 6003), and Notes for this DVR description; click the “OK” and “Auto Connect” to save it and start to connect automatically; or click the “History” to choose one DVR that ever connected.



The main window of the Mobile Phone application offers the choice of channels(Items),

Disconnect/connect and **Settings** buttons.

To connect to the system and start watching the live feed from your CCTV cameras, click on the **Connect** button or **Disconnect** to stop watching

To choose the camera, use the **Items** dropdown menu.

To modify settings, press the **Setting** button.

On-screen data will provide information about current time (in the MM-DD-YYYY HH:MM:SS format), Channel name, resolution, and status of the camera.

The menu bar contains the following controls.



Directional buttons for controlling the direction of the PTZ camera view



Zoom in / out



Focus



Iris



Snapshot

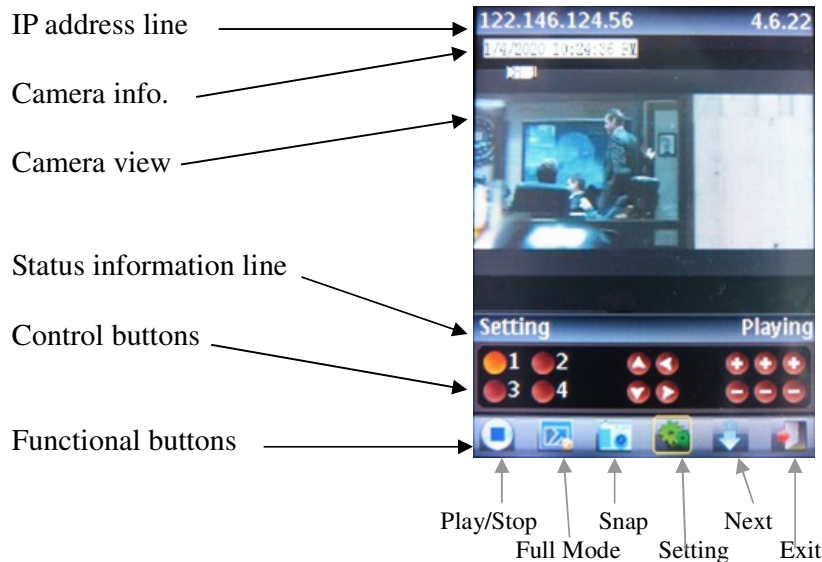
7.2 Nokia/Samsung/LG Symbian S60 3rd/S60 5th Phones

Open accessory CD and find the “KWeye_JH_3rd_1222.sisx”, or “KWeye_JH_5th1222.sisx” mobile surveillance software according to Symbian OS S60 3rd or 5th. Please refer to user manual of mobile phone to install the software into mobile phone. **While install the software, must set “software installation -ALL”, and “Online Certificate check - off”, ex. Main menu --> Applications --> App. mgr. (application management) --> Options --> settings --> software installation ,set ALL --> Online Certificate check , set off**



After installation is complete, please locate the KWeye icon in the list of applications on your mobile phone.

Execute KWeye and the program window will appear on the screen.



In order to navigate between the buttons, please use the directional keys of your Symbian mobile phone.

Explanation of the menu buttons and program interface:

Setting **Playing**

Status information line. The first status tag indicates the name for the selected functional button in the below control bar (in the illustration, it is “**Setting**”). The second tag word denotes the current status of the program (in the illustration, it is “**Playing**”).

Control buttons:



Selection of channels. If your system supports 8 or 16 channels, to switch between

channel buttons 1-4, 5-8, 9-12, and 13 -16, please use functional button  (see below)



PTZ camera direction controls, PTZ camera Zoom, Focus and Iris controls

Functional buttons:

When highlighting these buttons, the name of the corresponding function will be displayed in the status information line (the first tag name).



Play / Stop button



Full Mode. Displays the camera feed in the full-screen mode. All menus and buttons will be hidden.



Snap. Allows you to take a snapshot of the camera view.



Setting. Brings up the connectivity setup screen.



Next Group. Toggling between other available 4-channel views: 1-4 and 5-8 or 9-12, 13-16



Exit KWeye

In order to start working with the CCTV feed on your Symbian mobile phone, you will have to configure the program by entering the preferred network access point, IP address(or DDNS) of the DVR, mobile phone port, username, and password.



Click the icon to enter the setup window.

In the **Setting** screen, enter the following data:

IPs: DVR IP address or DDNS

Port: Mobile Port [6003 by default]

User Name: Login User Name [Admin]

Password: Password [888888 by default]

Channel: choose channel to connect first

Alias: description of this DVR

Back to the main window, and press the  button to connect to the DVR. After your device successfully logs in to the DVR, you can watch the remote video feed on your Symbian mobile phone.

Mobile phone reference list for OS S60 3rd:

LG-KT610	S60 3rd_FP1	10-Feb-08
LG KS10	S60 3rd_FP1	09-Oct-06
LG-KT615	S60 3rd_FP1	30-Oct-08
Nokia 3250	S60 3rd_INIT	13-Sep-05
Nokia 5320 XpressMusic	S60 3rd_FP2	22-Apr-08
Nokia 5500 Sport	S60 3rd_INIT	09-May-06
Nokia 5630 XpressMusic	S60 3rd_FP2	10-Feb-09
Nokia 5700	S60 3rd_FP1	29-Mar-07
Nokia 5730 XpressMusic	S60 3rd_FP2	11-Mar-09
Nokia 6110 Navigator	S60 3rd_FP1	08-Feb-07
Nokia 6120	S60 3rd_FP1	17-Apr-07
Nokia 6121	S60 3rd_FP1	18-Jun-07
Nokia 6210 Navigator	S60 3rd_FP2	11-Feb-08
Nokia 6220	S60 3rd_FP2	11-Feb-08
Nokia 6290	S60 3rd_FP1	28-Nov-06
Nokia 6710 Navigator	S60 3rd_FP2	16-Feb-09
Nokia 6720 Classic	S60 3rd_FP2	16-Feb-09
Nokia E51	S60 3rd_FP1	18-Sep-07
Nokia E55	S60 3rd_FP2	16-Feb-09
Nokia E60	S60 3rd_INIT	09-Oct-05
Nokia E61	S60 3rd_INIT	09-Oct-05
Nokia E61i	S60 3rd_INIT	10-Feb-07
Nokia E62	S60 3rd_INIT	09-Sep-06
Nokia E63	S60 3rd_FP1	12-Nov-08
Nokia E65	S60 3rd_INIT	09-Feb-07
Nokia E66	S60 3rd_FP1	16-Jun-08
Nokia E70	S60 3rd_INIT	09-Oct-05
Nokia E71	S60 3rd_FP1	16-Jun-08
Nokia E75	S60 3rd_FP2	16-Feb-09
Nokia E90	S60 3rd_FP1	11-Feb-07
Nokia N71	S60 3rd_INIT	09-Nov-05

Nokia N73	S60 3rd_INIT	09-Apr-06
Nokia N75	S60 3rd_INIT	27-Sep-06
Nokia N76	S60 3rd_FP1	08-Jan-07
Nokia N77	S60 3rd_INIT	12-Feb-07
Nokia N78	S60 3rd_FP2	11-Feb-08
Nokia N79	S60 3rd_FP2	21-Aug-08
Nokia N80	S60 3rd_INIT	09-Nov-05
Nokia N81	S60 3rd_FP1	29-Aug-07
Nokia N81 8GB	S60 3rd_FP1	29-Aug-07
Nokia N82	S60 3rd_FP1	14-Nov-07
Nokia N85	S60 3rd_FP2	21-Aug-08
Nokia N86 8MP	S60 3rd_FP2	17-Feb-09
Nokia N91	S60 3rd_INIT	14-Apr-05
Nokia N92	S60 3rd_INIT	09-Nov-05
Nokia N93	S60 3rd_INIT	09-Apr-06
Nokia N93i	S60 3rd_INIT	08-Jan-07
Nokia N95	S60 3rd_FP1	26-Sep-06
Nokia N95 8GB	S60 3rd_FP1	29-Aug-07
Nokia N96	S60 3rd_FP2	11-Feb-08
Samsung I7110	S60 3rd_FP2	20-Oct-08
Samsung INNOV8	S60 3rd_FP2	25-Jul-08
Samsung SGH-G810	S60 3rd_FP1	11-Feb-08
Samsung SGH-i400	S60 3rd_FP1	26-Apr-07
Samsung SGH-i450	S60 3rd_FP1	14-Oct-07
Samsung SGH-i520	S60 3rd_FP1	09-Oct-06
Samsung SGH-i550	S60 3rd_FP1	15-Oct-07
Samsung SGH-i560	S60 3rd_FP1	16-Oct-07
Samsung SGH-L870	S60 3rd_FP2	28-May-08

Symbian OS S60 5th Mobile Phone – Nokia 5800XM, N97, 5230, 5802XM, 5530XM and x6

7.3 iPhone/iPad Series

Please use 2nd generation iPhone3GS/iPhone4 or iPad , this Apple application, like all iPhone/iPad application, needs to be downloaded directly from the iPhone/iPad AppStore.

- 1) Open Apple iTunes
- 2) Search for “KWeye” from our third party supplier. It will be a free application.
- 3) Download and install onto iPhone as per iPhone installation procedures.



- 4) Please locate the icon  and click on it to open the application.

- 5) You will see following screen.

- 6) To set up the connection to the DVR, please first click  icon to enter settings menu as below right screenshot:

Server Info.

Title: Description of this DVR

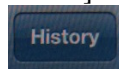
Address: DVR IP address or DDNS

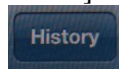
Port : Mobile Port [6003 by default]

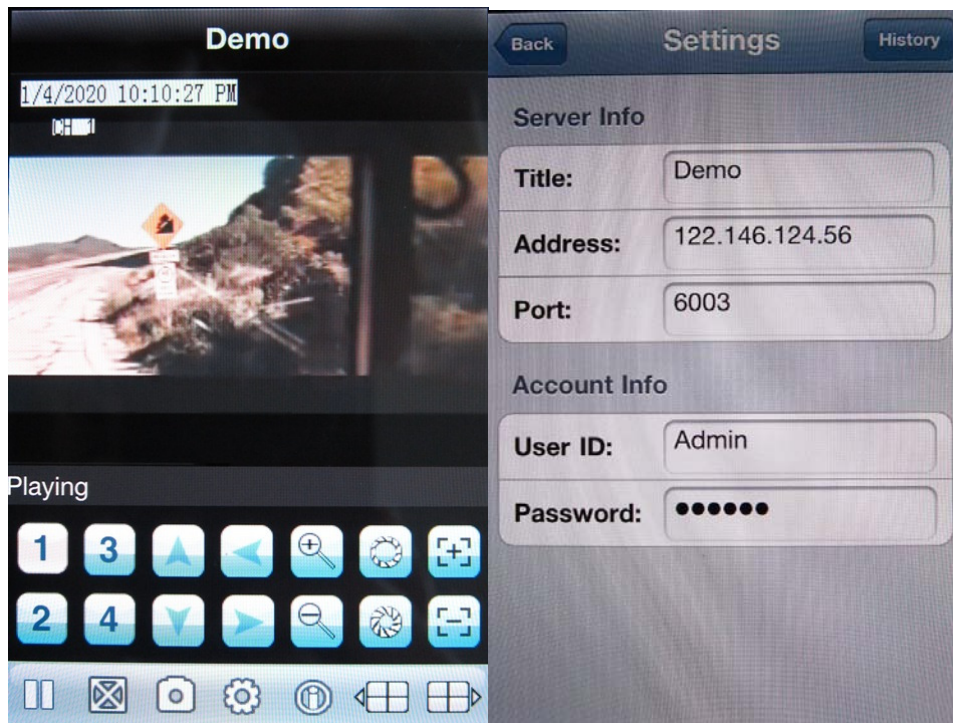
Account Info.

User ID: Login User Name [Admin] by default

Password: Password [888888 by default]



Click  after setting, or click  to choose other DVR that ever connected.



Click  icon to connect DVR immediately, after login DVR successfully, user can watch the remote video from mobile phone; the other icons function are as follows:



switch channel , click



show another 4 channel list



Control PTZ camera direction, Zoom, Iris and Focus.



Play / Stop button



Picture Snapshot.



Full Screen



This software information

7. 4 Blackberry Series

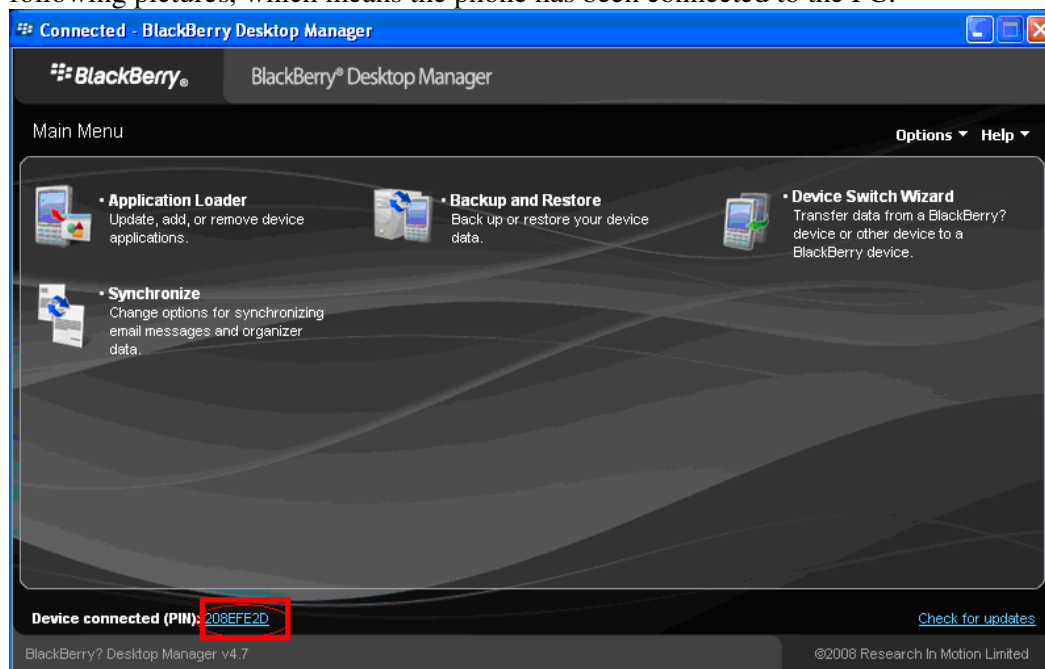
1) Program installation

1. Open accessory CD and copy the setup software “KWeye.cod” and “KWeye.alx” to your PC.
2. In order to be able to install applications and themes via BlackBerry Desktop Manager, firstly the PC should install BlackBerry Desktop Manager. BlackBerry Desktop Manager will be

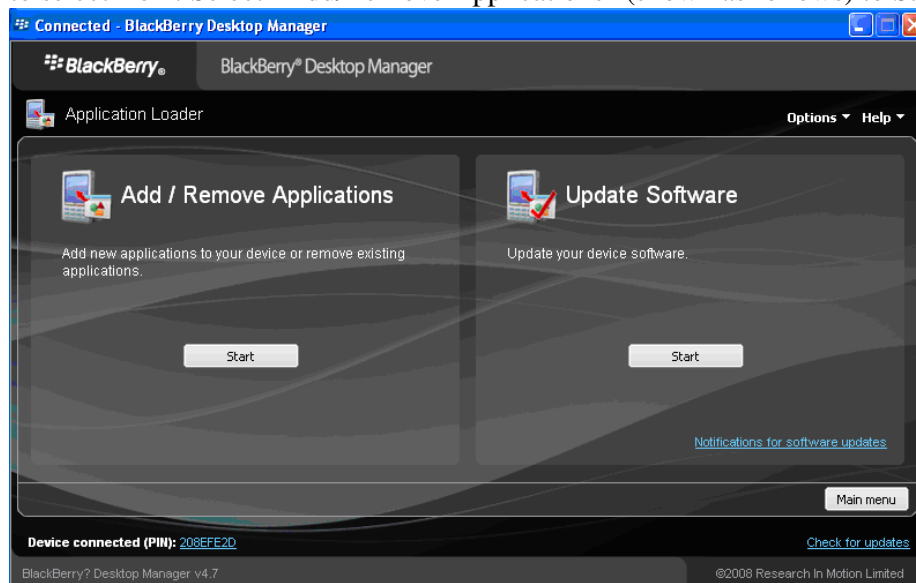
known as “DM.” ; otherwise the phone cannot establish the connection with the PC.

3. Connect your BlackBerry mobile phone to your computer via the USB cable that came with it, or any USB cable that fits. Start the DM.

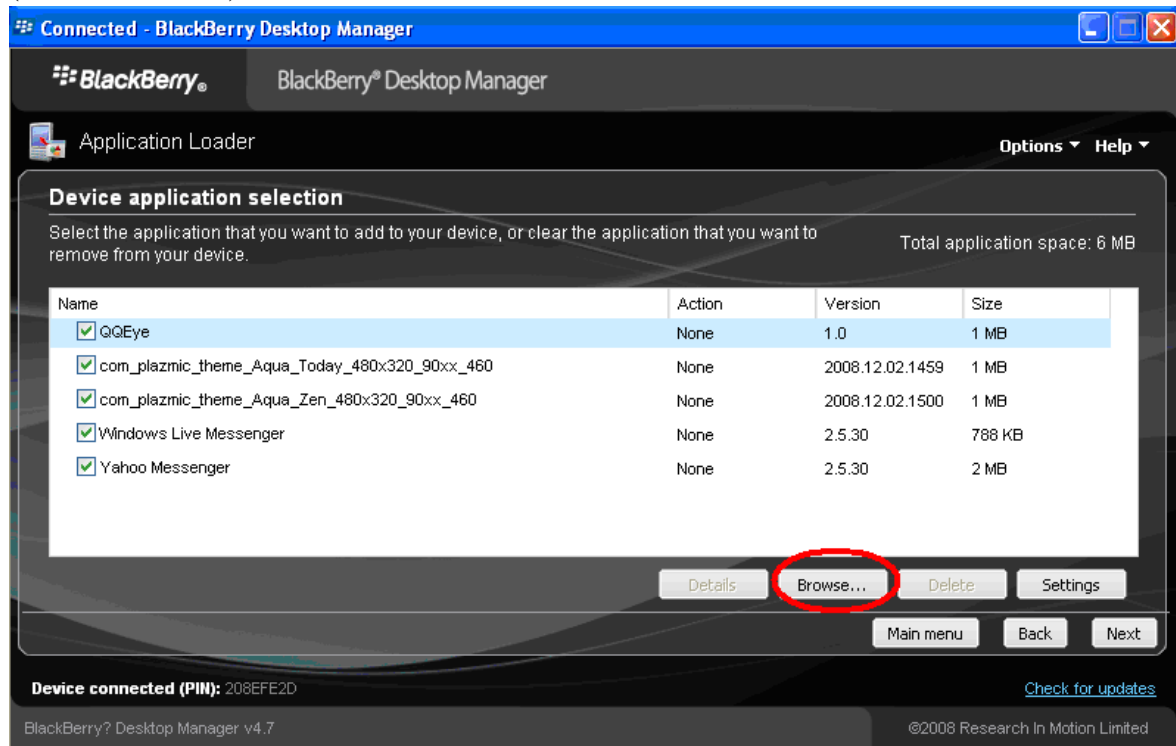
4. Before the installation, open the BlackBerry Desktop Manager. Shown as the red sign on the following pictures, which means the phone has been connected to the PC.



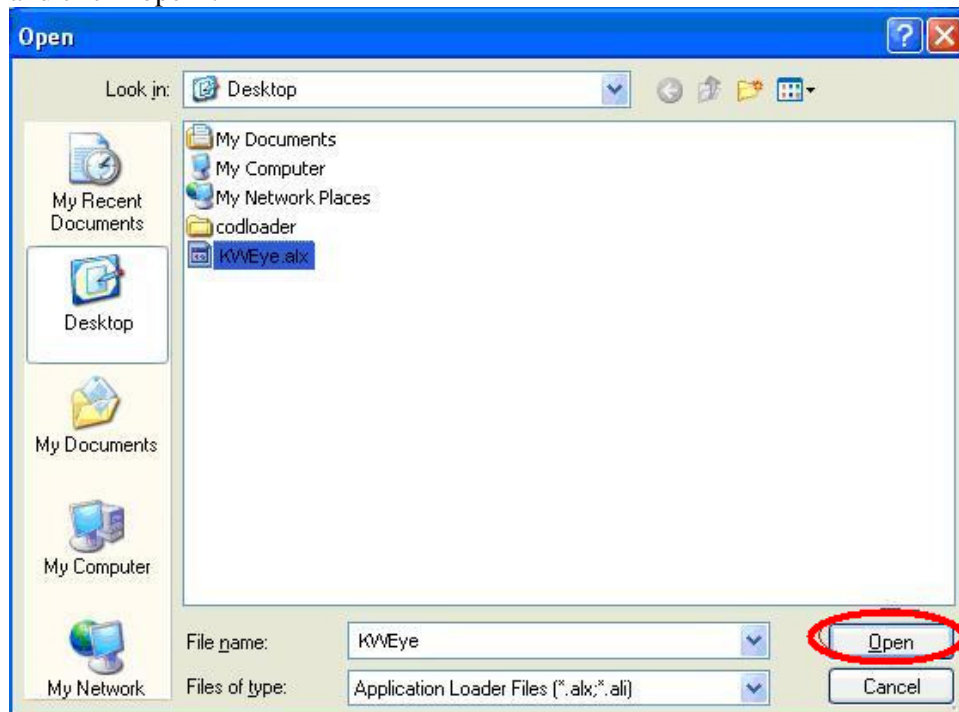
5. Click on “Application Loader” to enter into its interface. In this screen you have two options to select from. Select “Add/Remove Applications” (shown as follows) to Start



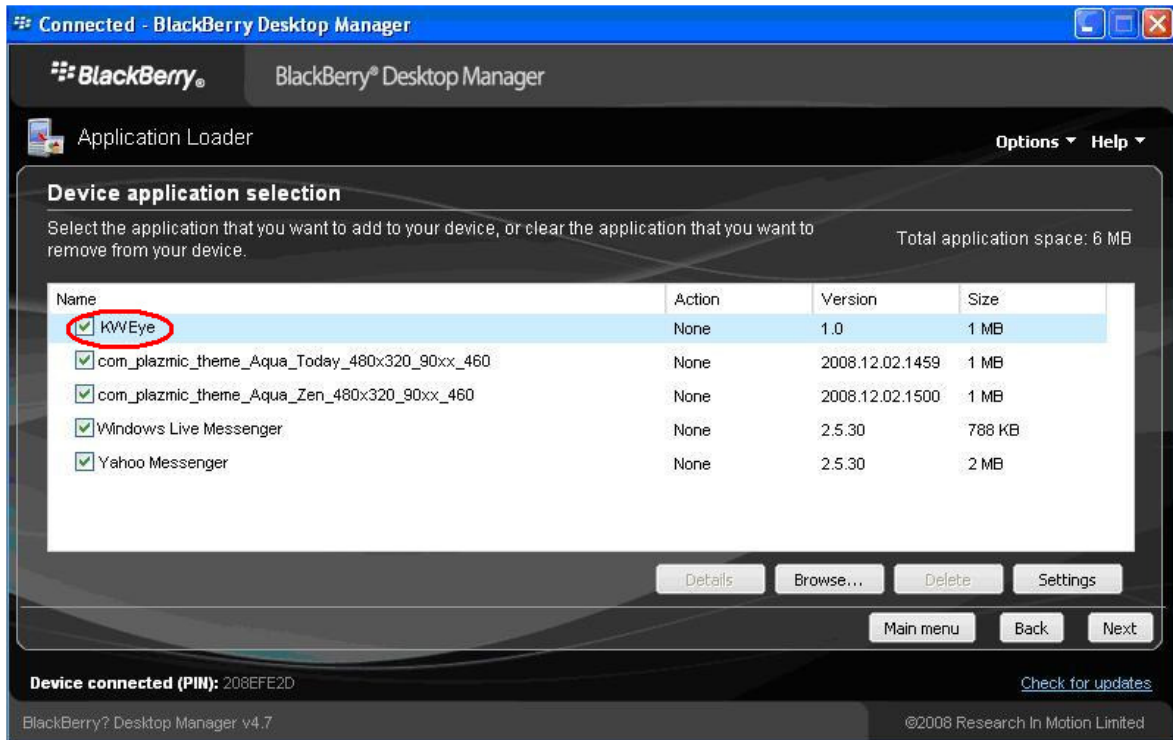
6. You should now see something like what you see below. From this screen, click “Browse” (shown as follows).



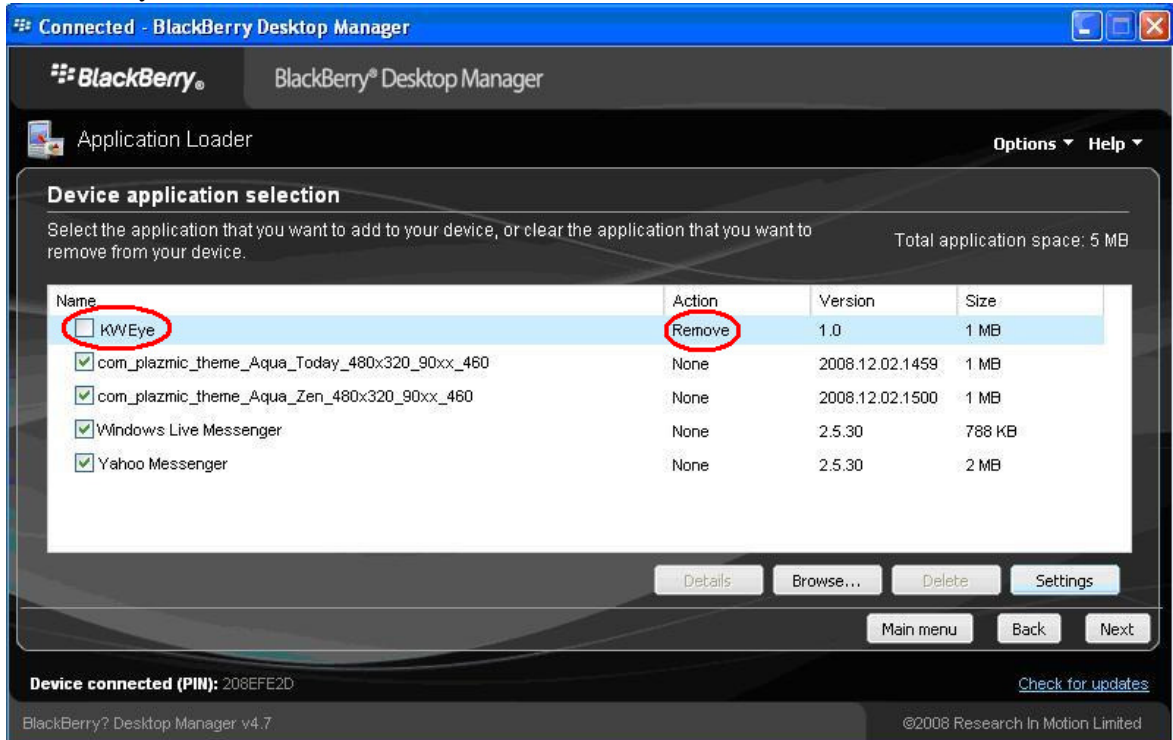
7. Once you click “Browse” you will see a file search screen like the one below. Go to and locate where you saved the application files. Make sure you saved both the “.alx” file and “.cod” file in the same folder. After finding the “KWeye.alx” file for the application, highlight it and click “open”.



8. You will now return to the Application Loader screen. From here you should see “KWeye” now listed with Install under the Action column (shown as follows) if the installation is successful.



9. You can remove the program “KWEye” as the following method. To enter into Application Loader screen, on “Device application selection” you can select the application that you want to clear from your device. When the option “Action” is “Remove”, it means the program will be clear from your device.



2) System explanations

KWeye phone port has the following capabilities and functions: live video surveillance, channel switch, full screen display, PTZ control, including zoon/focus/iris, image capture, save as favorite and exit function.

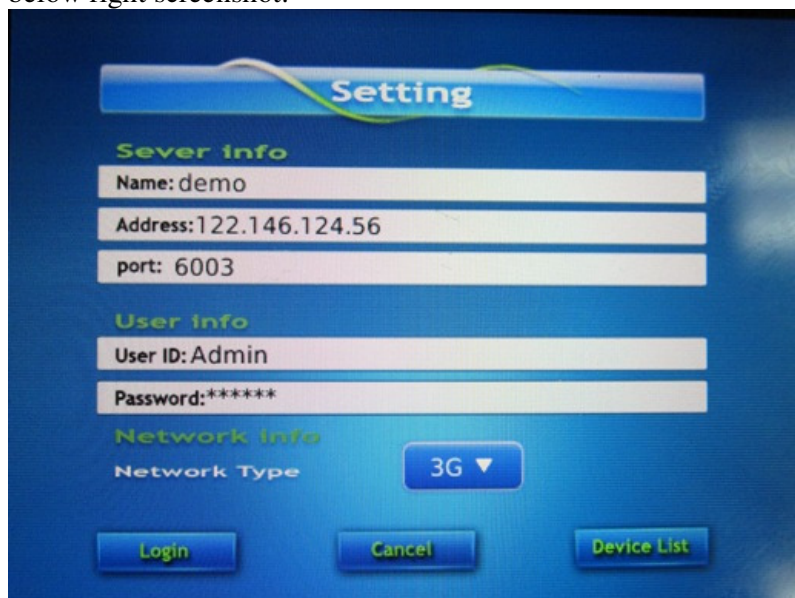
① System main interface

After the installation, press  “KWeeye” icon in the application, it will appear the below picture(The Main page)



② System setting

To set up the connection to the DVR, please first click  icon to enter settings menu as below right screenshot:



Server Info.

Name: Description of this DVR

Address: DVR IP address or DDNS

Port : Mobile Port [6003 by default]

User Info.

User ID: Login User Name [Admin] by default

Password: Password [888888 by default]

Network Info.

Network Type: Network through which you connect to the internet, like 3G, WiFi or others

Click  after setting to connect, or click  to choose other DVR that ever set up for streaming.

③ Function buttons



Click  icon to connect DVR immediately, after login DVR successfully, user can watch the remote video from mobile phone; the other icons function are as follows:



Play / Stop button



Full Screen



Picture Snapshot



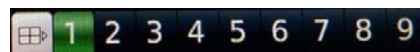
DVR settings



This software information



Click to choose channel list



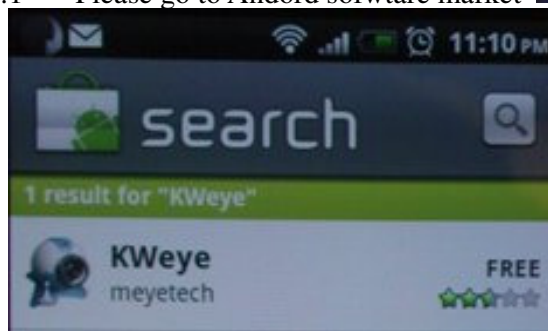
Control PTZ camera direction, Zoom, Iris and Focus.

7. 5 Android Mobile (Google Phone compatible)

1. Software Installation

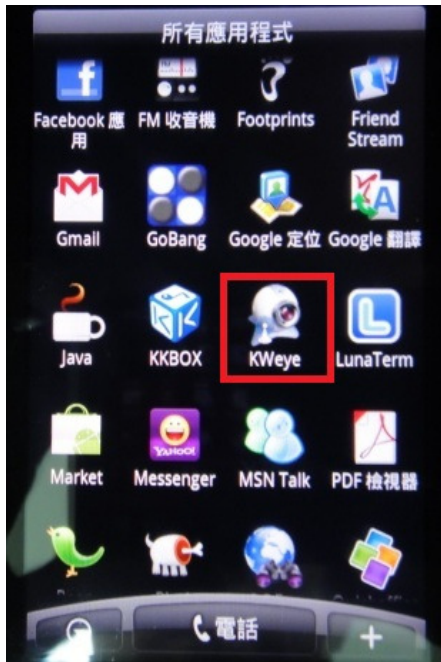


1.1 Please go to Andord softwtare market  to search “KWeye” as below:



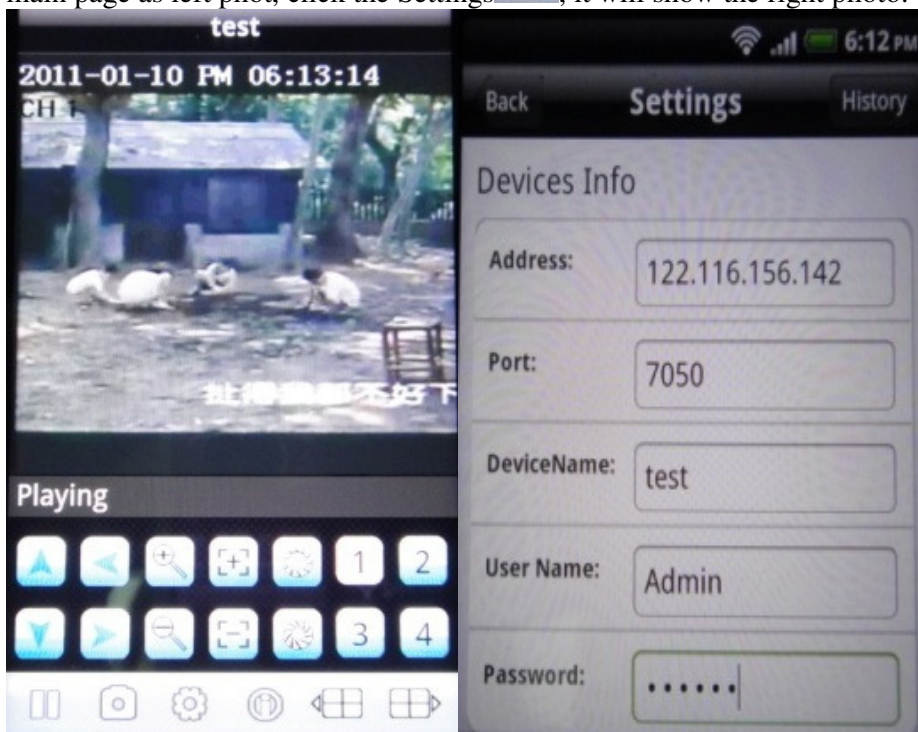
, click to enter and start to “Install”; or copy the software “**KWeye.apk**” from the CD:/Mobile Phone software/Android to the Android phone(SD card) to install.

1.2 After installed successfully, it will appear KWeye icon in the “All appas”:



2. Software Operation

2.1 After the installation, click the “KWeeye” icon in the “All apps” to run, it will show the main page as left photo, click the Settings , it will show the right photo:



2.2 System Settings:

As the right photo for last page, you may set up the parameters as below:

Devices Info.:

Address: DVR IP address or DDNS

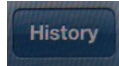
Port : Mobile Port [6003 by default]

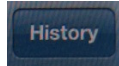
DeviceName: Description of this DVR

User Name: Login User Name [Admin] by default

Password: Password [888888 by default]



Click  after setting to connect, or click  to choose other DVR that ever connected.



2.3 The main display screen:

As the left photo for last page, click  icon to connect DVR immediately, after login DVR successfully, user can watch the remote video from mobile phone; the other icon functions are as follows:



switch channel , click  to show another 4 channel list



Control PTZ camera direction, Zoom, Iris and Focus.



Play / Stop button



Picture Snapshot.



This software information

8. Appendix

Appendix A-HDD Capacity/Recording Time Estimate

Calculate the maximum capacity of the build-in hard disk.

- **Timing Recording:**

Step 1: Calculate the maximum capacity of the hard disk needed in selected channel per hour, suppose as S_i (MByte) (i is the channel number), and suppose the bit rate of the channel selected as D (Kbit/s). The formula of calculation is:

$$S_i = (D \times 3600) / (8 \times 1024) = D \times 0.439453125 \text{ MB}$$

Step 2: Confirm the storage time length, suppose as T hours. The total maximum capacity of the hard disk needed in selected channel for T hours, suppose as S_t is:

$$S_t = T \times S_i$$

Step 3: Confirm the total numbers of the channels, suppose as n . The total maximum capacity of the hard disk needed, suppose as S_c is:

$$S_c = S_1 + S_2 + \dots + S_n$$

Record Quality (Bit rate)	Frame Rate (PAL/NTSC)	HDD Capacity	Recording Time(days)		
			4CH	8CH	16CH
Best(768Kbps)	Full Frame Rate(30 or 25 CIF = 15 or 12.5 Half D1 = 7.5 or 6 D1)	500GB	15.8	7.9	3.9
High(640Kbps)			19.0	9.5	4.8
Middle(512Kbps)			23.7	11.9	5.9
Low(384Kbps)			31.6	15.8	7.9
Best(768Kbps)		750GB	23.7	11.9	5.9
High(640Kbps)			28.4	14.2	7.1
Middle(512Kbps)			35.6	17.8	8.9
Low(384Kbps)			47.4	23.7	11.8
Best(768Kbps)		1000GB	31.6	15.8	7.9
High(640Kbps)			37.9	19.0	9.5
Middle(512Kbps)			47.4	23.7	11.9
Low(384Kbps)			63.2	31.6	15.8
Best(768Kbps)		2000GB	63.2	31.6	15.8
High(640Kbps)			75.9	38.0	19.0
Middle(512Kbps)			94.8	47.4	23.8
Low(384Kbps)			126.4	63.2	31.6

Hard Disk capacity/recording time is only related to bite rate, neither Resolution, nor Frame rate

Calculate the compression bit rate for recording T hours.

- **Timing Recording**

Step 1: Suppose the capacity of the hard disk as S , the total numbers of the channel as n . The capacity of hard disk needed per channel supposed as D_i is:

$$D_i = S / n$$

Step 2: Suppose the total recording time as T hours. The capacity of the hard disk needed per hour per channel supposed as Dt is:

$$Dt = Di / T$$

Step 3: The bit rate of all the channels supposed as Dc is:

$$Dc = Dt * (8 * 1024) / 3600 = Dt * 2.2756 \text{ (Kbit/s)}$$

Appendix B– Compatible HDD List

The other brand or model, please test by yourselves

Item	Model Number	Size(GB)	Drive
WD	WD5001ABYS, WD5000AADS	500	SATA
WD	WD5000AVVS, WD5000AVDS	500	SATA
WD	WD7500AACS	750	SATA
WD	WD10EADS, WD10EVDS, WD10EALS	1000	SATA
WD	WD15EADS	1500	SATA
WD	WD20EVDS, WD20EADS	2000	SATA
HITACHI	HDS721050CLA362	500	SATA
HITACHI	HDS721075KLA330	750	SATA
HITACHI	HDT721010SLA360, HDS721010CLA332	1000	SATA
HITACHI	HDS722020AL330	2000	SATA
Maxtor	6V16010	160	SATA
Seagate	ST3250310SV	250	SATA
Seagate	ST3500320SV, ST3500320AS, ST3500418AS	500	SATA
Seagate	ST31000528AS, ST31000520AS	1000	SATA
Seagate	ST31500341AS	1500	SATA
Seagate	ST32000542AS, ST32000641AS	2000	SATA
Samsung	HD161HJ	160	SATA
Samsung	HD501LJ	500	SATA

Appendix C– Compatible USB portable DVD Burner List

The other brand or model, please test by yourselves

- * Sony DRX-S70U-R
- * HUGE USB Slim Portable Optical Drive
- * LG GE20LU10
- * Lite On eSAU108
- * Buffalo DVSM-P58U2/B

Appendix D– Change Notice

Due to that Dual Stream Multiplex 8CH DVR has only 4CH Audio in, the following pages are modified as below:.

A. Page 6 – [1.1 Product Specification](#):

Change the **Audio Input** from “**8 Channel/8 x RCA**” to “**4 Channel/4 x RCA**” in the 8CH_DVR field.

B. Page 8 - [1.2 What are inside this DVR package?](#)

Modify “Audio cables for 8CH DVR(8 x RCA in + 1 x RCA out)” **as** “Audio cables for 8CH DVR(8 x RCA in + 1 x RCA out, only A-IN1 ~ A-IN4/A-OUT work)”

C. Page 13 – [2.2 Back Panel](#), modify “4. Audio Input Connectors (AUDIO IN 1-4/1-8)” as below:

4. Audio Input Connectors (AUDIO IN 1-4/1-8, only A-IN1 ~ A-IN4/A-OUT work)

4 channel audio input, RCA (2Vp-p,600Ω) for 4CH H264 DVR; or connector for 8CH H264 DVR to connect Audio cable(4CH Audio Input+ 1CH Audio Output)

D. Page 37 – [5.3.5 Record Source](#)

Modify “Two type selection of recording, Video with audio or Video only” **as** “Two type selection of recording, Video with audio or Video(CH5 ~ CH8 only can have Video)”

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